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September 1980

SUMMARY OF PACIFIC MISSILE TEST CENTER METEOROLOGICAL SUPPORT AIR QUALITY ASSESSMENT MODEL (AQAM) TESTS

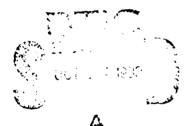
at the Naval Air Station, Miramar, 1 to 8 August 1979

NAVAL AIR PROPULSION CENTER WORK REQUEST N62376-79-WR0010 and N62376-80-WR00036

Ву

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J. Rosenthal

Geophysics Division



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AN ACTIVITY OF THE NAVAL AIR SYSTEMS COMMAND

This work was prepared by Y. K. Yamamura, Principal Investigator; R. A. Helvey, Meteorologist, J. Rosenthal, Meteorologist; W. W. Choate, Meteorological Technician; D. Musquiz, Meteorological Technician; and M. Bahu, Electronic Technician, under Naval Air Propulsion Center (NAPC) Work Request N62376-79-WR0010 and N62376-80-WR00036 (NAS Miramar Air Quality Program (Meteorology)).

Mr. D. A. Lea, Acting Geophysics Officer; Mr. C. Elliott, Project Engineering Manager; Dr. T. C. Lockhart, Associate Range Operations Officer; and Mr. W. L. Miller, Associate Range Directorate, have reviewed this report for publication.

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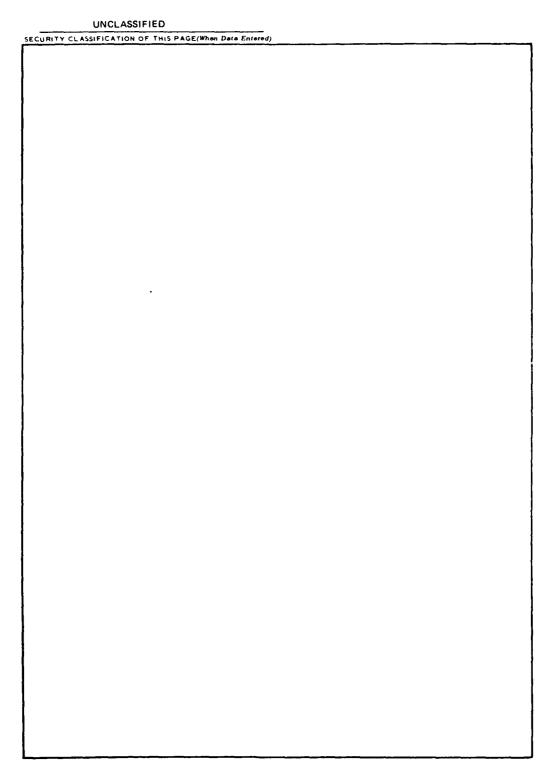
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ACRONYMS

APCD Air Pollution Control District

AQAM Air quality assessment model

CDC Control Data Corporation

EPA Environmental Protection Agency

MYF National Weather Service at Montgomery Field

NAPC Naval Air Propulsion Center

NAS Naval Air Station

NCC National Climatic Center

NKX Naval Weather Station At NAS Miramar

NPS Naval Post Graduate School

NWSD Naval Weather Service Detachment

PACMISTESTCEN Pacific Missile Test Center

RAOB Rawinsonde Observation (installation)

SMOR Summary of Meteorological Observation, Radiosonde/Rawinsonde

SMOS Summary of Meteorological Observations, Surface

TDF Tape deck format

PACIFIC MISSILE TEST CENTER Point Mugu, California 93042

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By
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W. W. Choate
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J. Rosenthal

SUMMARY

This report summarizes PACMISTESTCEN contributions to the Air Quality Assessment Model (AQAM) validation tests at the Naval Air Station (NAS), Miramar, 1 to 8 August 1979, and summarizes the meteorological conditions employed in the final analyses of the AQAM for the Miramar test period.

NAS Miramar is located about 15 miles north of downtown San Diego and about 8 miles east of the Pacific Coast.

Using the statistical guidance developed, a set of criteria were formulated on which to base recommendations for the scheduling of the measurement period.

During the selected measurement period itself, the PACMISTESTCEN provided operational day-to-day forecasts to plan monitoring activities as well as both surface and upper air measurements to correlate with emission measurements and to serve as model input. Post-operation and on-site data evaluation, reduction and analysis, as well as meteorological interpretation services were also provided.

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INTRODUCTION

In response to the Navy's concern over the impact of its aircraft operations on local air quality and its inability to conduct an air quality monitoring program at each naval air station (NAS), a generalized computer model was developed that could predict the effect of aircraft operations on off-station air quality. The Naval Air Propulsion Center (NAPC) established a two-phase program to generate an Air Quality Assessment Model (AQAM) applicable to Navy flight and ground operations and to validate this model at a high-activity naval air station. The first phase of the program was conducted by the Naval Postgraduate School (NPS)¹, which developed an Air Quality Assessment Model that predicts air quality levels up to 5 miles around a naval air station. The NPS model considered station activity according to type and frequency of aircraft, meteorology, other station emission sources, and off-station emission sources.

The second phase, model validation, is being conducted at NAS Miramar. NAS Miramar was selected because it has the highest intensity of flight activity of all Naval Air Stations. A major requirement in validating the model is to compare actual air quality measurements with model predictions based on actual meteorology, flight activity, and on/off-station emission sources. Such a model validation is being performed using information compiled from a summer test period at NAS Miramar. During this test period a concerted effort was made to obtain data on aircraft activity based on time of day, frequency, and aircraft type by NAPC and NPS personnel: station air quality levels measured by the Environmental Protection Agency (EPA) and Northrop Services, Inc., personnel; and a variety of meteorological conditions by Pacific Missile Test Center (PACMISTESTCEN) personnel. The PACMISTESTCEN meteorological support consisted of surface and upper air measurements, numerical analysis, climatological planning, and day-to-day predictions and interpretations of Geophysics Division meteorologists and technicians at Point Mugu.

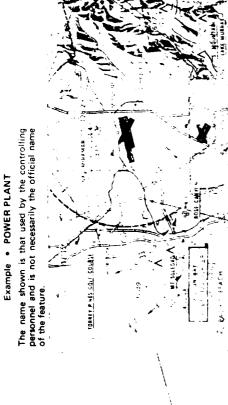
The NAS Miramar Duty Forecasters, the San Diego Air Pollution Control District, and the National Weather Service upper air measurement team at Montgomery Field also provided valuable meteorological assistance. This report summarizes the PACMISTESTCEN contributions and meteorological conditions that can be used in the final analyses of the AQAM for the Miramar test period.

LOCATION OF THE TESTS.

The Naval Air Station Miramar is located near the coast of southern California and has a Mediterranean-type climate. Temperatures are usually mild, and a high level of maritime influence prevails. Summers are characterized by frequent low clouds in the early mornings and warm, sunny days with infrequent rainfall, mainly inland thunderstorms of tropical origin. Winters are mild, punctuated by rainy periods advancing from the west and northwest alternating with periods of dry easterly winds. The predominant wind direction at NAS Miramar is northwest; seabreezes are dominant during daytime hours, and light north or northeast land breezes are typical at night. During the warmer months, a strong subsidence inversion layer typically separates moist, cool air below from warm, dry air aloft.

¹Naval Postgraduate School. Sensitivity of AQAM Prediction for Naval Air Operations to Meteorological and Dispersion Model Parameters, by D. W. Netzer. Monterey, California, May 1978. (Technical Report NPS-67Nt78051 UNCLASSIFIFD).

Figure 1 shows the focation of NAS Miramar, about 14 miles north of downtown San Diego and about 8 miles east of the Pacific Coast. Highway 163 runs north-south along the eastern end of Miramar. Elevation is about 447 feet. Figure 2 gives locations of the FPA air monitoring sites and the PACMISTESTCEN rawmsonde observation (RAOB) installation.



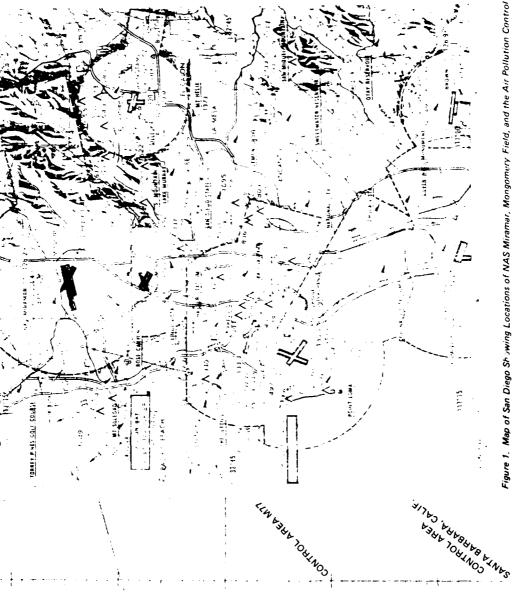


Figure 1. Map of San Diego Shawing Locations of NAS Miramar, Mongomery Field, and the Air Pollution Control District, San Diego

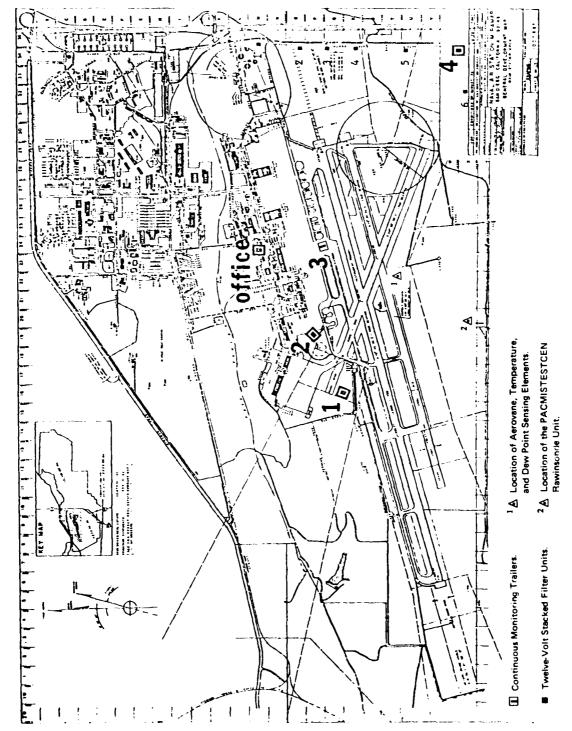


Figure 2. Map of the MAS Miramar with AQAM Measurement Sites Shown.

PLANNING AND SCHEDULING OF THE TESTS

A basic objective of the Miramar tests was to take measurements under what could be considered representative meteorological conditions so that test results would apply in general to prevailing conditions at Miramar and not to unusual conditions of chance. The monitoring sites were located with this in mind. The PACMISTESTCEN acquired a significant amount of climatic data from the National Climatic Center (NCC). Asheville, North Carolina, so that the tests could be scheduled under the desired meteorological conditions. The statistical data were processed by PACMISTESTCEN on the Control Data Corporation's (CDC) CYBER 175 computer to determine seasonal and diurnal patterns for wind, cloud cover, stability, and other parameters.

The following is a list of climatological data for NAS Miramar and adjacent areas obtained by the PACMIS-TESTCEN from the Naval Weather Service Detachment (NWSD), National Climatic Center (NCC), for the initial effort.

- Monthly, seasonal and annual (day/night) wind distribution by Pasquill stability classes for NAS Miramar (January 1968 to December 1977)
- Magnetic tape copy of surface weather observations in tape deck format 1440 (TDF-14) for NAS Miramar for January 1968 to December 1977
- Paper copies of surface weather observation forms for NAS Miramar for July 1977 (latest available month)
- New Summary of Meteorological Observations, Surface (SMOS), for NAS Miramar
- Summary of Meteorological Observation, Radiosonde/Rawinsonde (SMOR) for San Diego Montgomery Field in which all available data are included
- Magnetic tape copy of upper air observations in tape deck format 5600 (TDF-56) for Montgomery Field for the same period used in SMOR.

On receipt of the climatological data from the NWSD, the PACMISTESTCEN performed a variety of numerical evaluations to obtain representative seasonal, monthly, and area weather conditions for NAS Miramar. From these conditions, the PACMISTESTCEN determined the optimum periods for scheduling the AQAM tests. Upper air and surface weather observations for Montgomery Field (MYF) and NAS Miramar (NKX) were reformatted from TDF-56 and TDF-14, respectively, and PACMISTESTCEN prepared two data files on the CYBER 175 computer system in formats that met the AQAM objectives.

The computation of Pasquill stability class from the surface data base was performed for each hour of the day based on a 10-year period for NKX, and PACMISTESTCEN added the results to the surface data base on the CYBER system. During the software development for stability classes, PACMISTESTCEN meteorologists discovered that under overcast conditions the NCC's STAR* Program, which is used to generate stability data for worldwide climatological applications, computed incorrect stability classes (classification 2) for ceilings less than 7,000 feet. Independent evaluation by PACMISTESTCEN revealed that stability class 3 must be assigned to these conditions. Since the stability class is an important parameter not only for the Navy's AQAM model validation effort but also for other pollution-potential assessments that are based on these types of climatic statistics, NCC was contacted in May 1979, and briefed on the discrepancy in their procedure.

Computations and evaluations of mixing layer depth, the depth to which pollutants can be expected to disperse under maximum daytime surface temperatures, were carried out. These computations and evaluations were based on the upper air data base from nearby Montgomery Field coupled with the surface data based from Miramar.

^{*}NCC's STAR Program is the computer program that determines Pasquill stability classes from hourly airport observations.

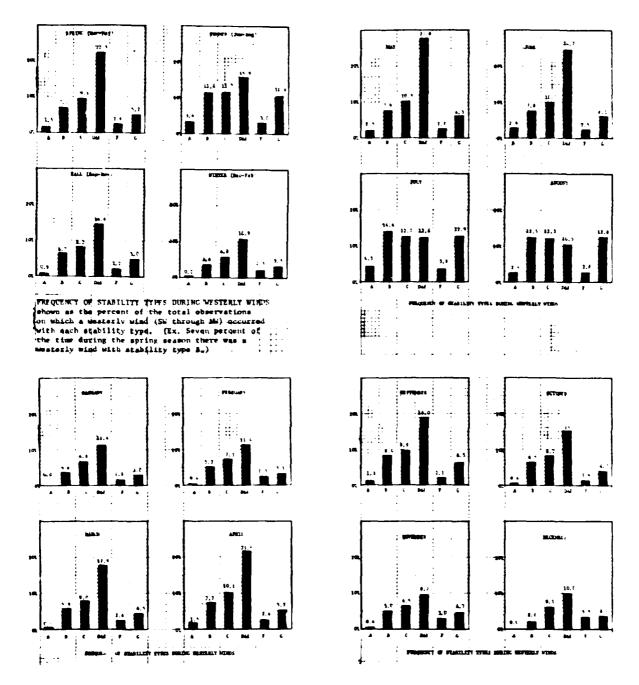
The PACMISTESTCEN then used these data to construct a 4-way joint frequency distribution table, with wind speed and direction, and a Pasquill stability class for any desired period of the day and month of the year at Miramar. Results of a regression analysis² demonstrated that the coefficient of determination for predicting the summer mixing depth at 1600 Pacific Standard Time (PST) was high (about 83.5 percent). However, the mixing depth at 1300 PST alone accounted for almost 76 percent of the total variance in the mixing depth at 1600 PST. This indicated that the mixing depth at 1300 PST could be used to predict mixing depth conditions 3 hours later near the time of maximum surface temperature at Miramar. This method of analysis was useful on days when there was considerable diurnal variation in the mixing layer depth.

Using the statistical guidance developed, the PACMISTESTCEN formulated a set of criteria on which to base recommendations of two separate 1-week measurement periods (versus the 2-week period originally planned). One week would be in the spring (April or early May) and the second in the summer (July). The rationale for dividing the measurement period into two separate weeks was as follows:

- Minimum background pollution was desired to avoid confusion with aircraft-related emissions during interpretation of results.
- Since prevailing westerly winds were most representative of conditions at Miramai and the three sampling sites were located downwind from the selected pollution sources, test periods were established when westerly winds were likely to predominate.
- From November through May, average mixing depth typically exceeded 1,000 to 2,000 feet at
 coastal sites such as Miramar. During the spring, winds from the west quadrant (southwest to
 northwest) were frequent (49 percent of the time), with westerly winds greater than 10 knots
 occurring about 7 percent of the time.
- During the summer, winds from the west quadrant were also frequent (57 percent of the time), and were still sufficiently strong (greater than 3 knots 35 percent of the time) to provide adequate dispersion for the AQAM tests.
- Pasquill stability classes ranging from A through C or 1 to 3, associated with extremely unstable to
 slightly unstable conditions, were most frequent when winds were from the west. These conditions
 occurred up to 30 percent of the time for the midsummer months, as indicated in figure 3.

Using climatic conditions as a guide, the PACMISTESTCEN initiated plans for a 1-week measurement period in midsummer. Delays in site preparation resulted in a slight postponement, but the test period (from 1 to 8 August) still occurred during the optimum summer conditions. To meet the requirements set for springtime, when mixing heights were deeper, the PACMISTESTCEN tentatively planned a second week of measurements for the spring 1980. This second measurement effort was canceled due to unavailability of funds.

²California State University, Northridge. Multiple Regression Analysis of Winds. Mixing Depths, and Pasquill Stability Indices at NAS Miramar, by Gong-Yuh Lin. Northridge, California, 31 August 1979. (Unpublished Report, UNCLASSIFIED).



INPUT DATA PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NORTH CAROLINA

STABILITY CLASS

- EXTREMELY UNSTABLE Α Ε NEUTRAL/NIGHT UNSTABLE SLIGHTLY STABLE
- В ¢ SLIGHTLY UNSTABLE STABLE G NEUTRAL/DAY

D

Figure 3. Frequency of Stability Type During Westerly Winds for Each Season and Month Based on Surface Observations From January 1968 to December 1977 at NAS Miramar.

OPERATIONAL FORECASTS

While the climatic guidance was used to plan the scheduling of the Miramar tests from 1 to 8 August, a requirement also existed for more immediate weather information to determine if and when representative conditions would permit monitoring of operations and emissions to take place throughout the test period.

Each day at about 0600 local time, PACMISTESTCEN meteorologists coordinated via telephone with the Weather Center at Point Mugu (that has a 24-hour-a-day satellite, weather chart and forecasting capability) and Miramar Naval Weather Service personnel, who provided valuable assistance and observations. Using the data supplied by Point Mugu and Miramar, PACMISTESTCEN meteorologists predicted the large- (macro) and small- (meso) scale flow patterns that would affect NAS Miramar. Prior to the start of monitoring at approximately 0800 each day, a weather briefing was given in the main AQAM trailer to provide guidance on expected wind speeds and direction, wind shifts, sun conditions, and mixing layer depths.

GENERAL WEATHER CONDITIONS DURING THE AQAM TEST PERIOD

During the AQAM test period, two distinct synoptic conditions dominated the weather over the NAS Miramar and the San Diego area. During the first four days, a subtropical high pressure system prevailed, with temperature inversion bases ranging from 1,000 to 2,000 feet and seabreezes ranging from 1 to 8 knots (west to northwest direction). For the last four days, middle and high clouds advected into the San Diego area from a weak tropical depression well to the southwest of San Diego. Under these warmer conditions aloft, the mixing layer deepened and reached 4500 feet during the late morning hours on Monday, 6 August. Figures 4 through 7 show the contrasting synoptic conditions depicted at the 500 millibar level (about 18,000 feet) and corresponding/Geostationary satellite imagery for both periods.

Throughout both weather regimes, NAS Miramar experienced west to northwest winds during the daytime hours as originally anticipated from the climatological guidance. On 5 August, a partial exception occurred; westerly afternoon winds were weak following a morning southerly flow associated with an offshore coastal eddy. Approximately 15 minutes of light sprinkles from the higher clouds were also observed on the afternoon of 5 August. In addition to the summertime representative conditions provided by both weather regimes, a variety of mixing heights also occurred that will be valuable for the model validation effort.

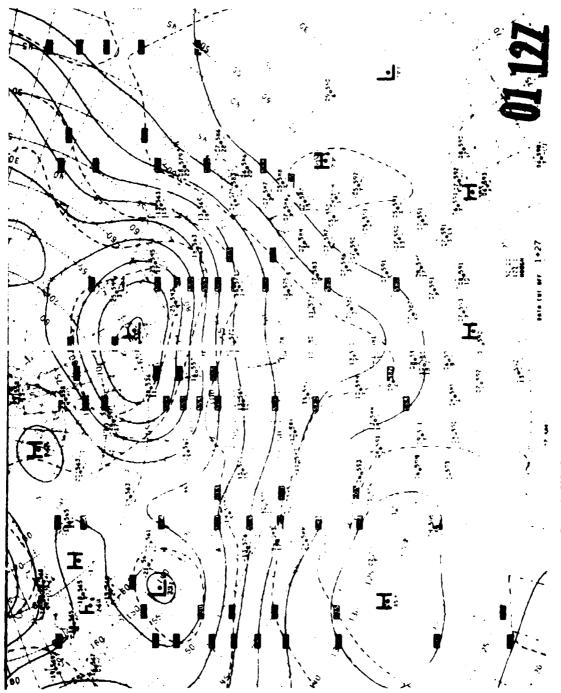


Figure 4. 500MB Heights/Temperature, 1200 GMT Wednesday, 1 August 1979.

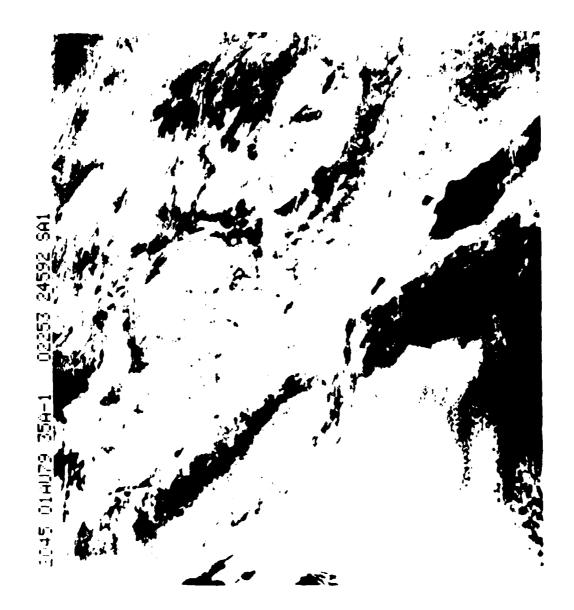


Figure 5. GOES Satellite Imagery of 2045GMT (1245 PST) 1 August 1979 Showing Stratus Coverage Along and Off California Coast.

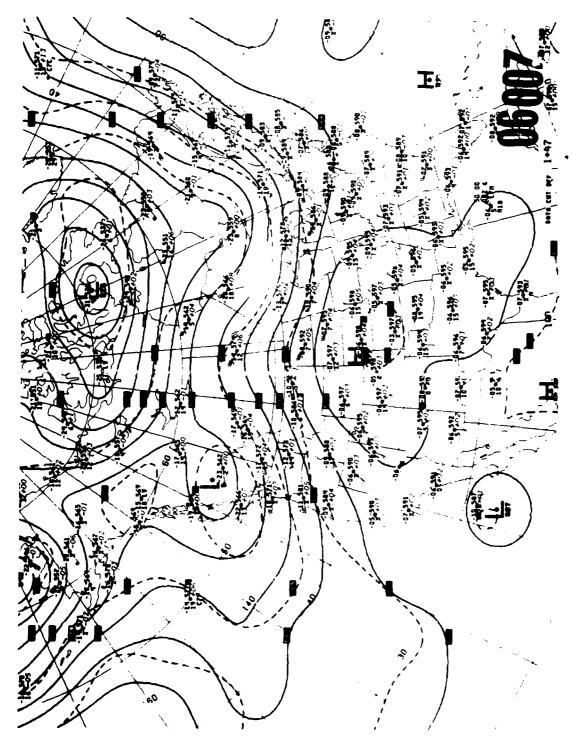


Figure 6. 500MB Heights/Temperature, 0000GMT Monday, 6 August 1979.

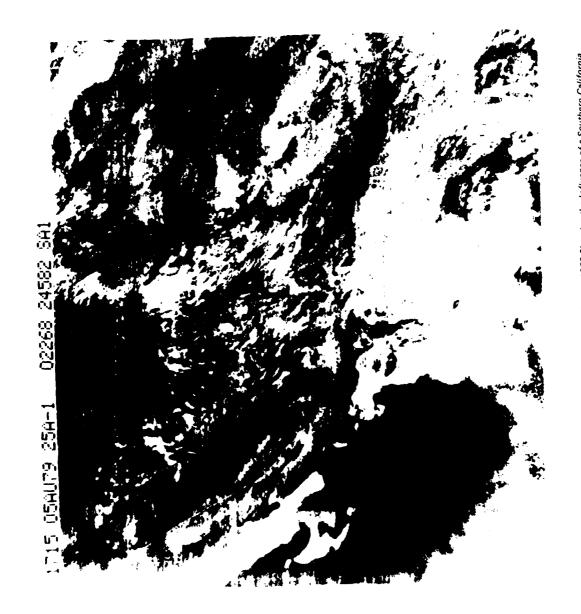


Figura 7. GOES Satellite Imagery 1715GMT (0915 PST) 5 August 1979 Showing the Influence of a Southern California Marine Layer Eddy and a Subtropical Depression Over the San Diego Area.

PACMISTESTCEN MEASUREMENTS

The PACMISTESTCEN took upper air soundings by high resolution rawinsondes using rapid-switching modification for detailed sampling, and made surface weather observations at the rawinsonde site located at the southern end of NAS Miramar. These measurements were made by two teams of meteorological technicians, each team composed of 2 members. Together the 2 teams conducted round-the-clock (usually 4 times-a-day) monitoring of mixing height and wind conditions.

The Miramar Public Works Department provided PACMISTESTCEN with measurement facilities consisting of a trailer (figure 8), which housed the rawinsonde receiving and recording equipment (figure 9) and sufficient work space for PACMISTESTCEN to use an HP 9825 desk-top computer. The computer provided onsite calculations of mixing height. Prior to each rawinsonde release, balloons were inflated in a special shroud (figure 10) that was located outside the trailer and adjacent to the helium supplies. The GMD rawinsonde receiver antennae was in a flat area a short distance from the meteorological trailer. This area also provided space for uninterrupted hourly surface weather observations (figure 11).

A primary consideration of all of the upper air measurements was safety and noninterference with existing air operations. To accomplish this, meteorologists, NAS Miramar Public Werks, and Air Operations personnel selected an upper air measurement site where free-rising ballons in prevailing wind conditions would have minimum impact on typical Miramar flight patterns. Soon after measurements began, it was apparent that closer communication was needed to ensure that balloon releases would not interfere with low-flying aircraft. Therefore, air operations personnel supplied a walkie-talkie for direct communications with the flight clearance tower (figure 8).

A total of 33 high-quality sounding were obtained during the 8-day period. All but 2 of the soundings were taken without an incident; however, if additional measurement/periods are planned, an alternative upper air measurement site may still be desirable to eliminate the risk to aircraft operations. The PACMISTESTCEN meteorologists compared soundings taken at Miramar with those taken at nearby Montgomery Field. The findings of the comparison are discussed in figure 14 and the RESULTS section of this report. Each day meteorologists recorded surface weather observations on federal meteorological Form 1-10 provided by NWSED, NAS Miramar (NKX). Appendix B contains the official NAS Miramar runway observations, and appendix C contains supplemental PACMISTESTCEN surface observations. The hourly data from NWSED was used as input to compute hourly Pasquill stability classes at NAS Miramar for the AQAM test period. The stability classes were computed in near-real-time using software developed by PACMISTESTCEN for the portable HP 9825 computer. Immediately after the completion of each sounding, all RAOB data were reduced for thermodynamical parameters so that the mixing layer depth for hours between soundings could be computed to obtain more current conditions for inversion base height and associated marine layer conditions over the test site.

The final RAOB data reduction was performed at PACMISTESTCEN. Appendix D gives the output results for each of the input levels for all 33 soundings. Table 1 summarizes all RAOBs for NAS Miramar by day, ascent number, and release time (given in Pacific Standard Time).

8/7/79 8/8/79 8/4/79 8/5/79 8/6/79 7/31/79 8/1/79 8/2/79 8/3/79 No. / PST 3 0318 33 0325

Table 1. Days and Times of the PACMISTESTCEN Rawinsonde Soundings at the NAS Miramar.

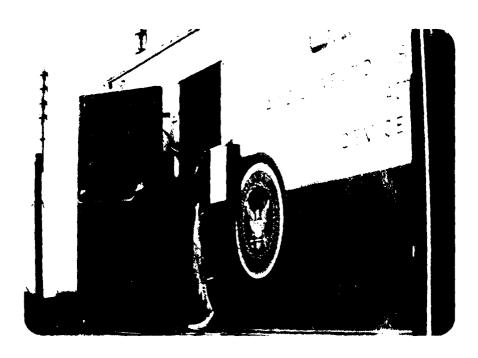


Figure 8. PACMISTESTCEN Meteorological Technician Coordinates With Operations Tower From Meteorological Trailer Prior to Rawinsonde Release.



Figure 9. PACMISTESTCEN Meteorological Technicians Reduce and Record Rawinsonde Data Onsite.

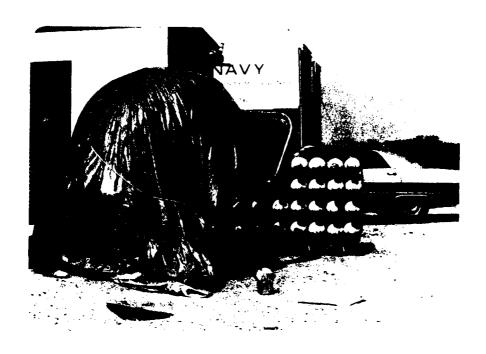


Figure 10. Shroud Covers Balloon Prior to Release.



Figure 11. PACMISTESTCEN GMD Receiver and Nearby Surface Observations.

RESULTS

Table 2 provides a summary of the parameters that PACMISTESTCEN determined to be most needed by NPS and EPA personnel. At the top of the table is a key to the abbreviations used in the table. The data is set up so that it can be quickly and easily input into AQAM calculations.

Figure 12 is a time cross section of isentropic surfaces reduced from 33 RAOBs. Mixing layer depths have been plotted using the data from table 2. Figure 13 shows the rawinsonde observation temperature profiles and inversion base fluctuations as determined from these profiles. For comparison, figure 13 also plots (in dashed lines) the San Diego County Air Pollution Control District (APCD) acoustic sounder data, which exhibited strong returns.

Table 2 and figures 12 and 13 clearly show the diurnal fluctuation of the mixing layer depth. The highest inversion base occurred during midday hours and the lowest inversion base occurred during early morning hours. The stability of the marine layer had the same diurnal vertical oscillation throughout the test period, with extremely unstable conditions becoming most unstable a few hours after noon. The deep marine layer observed on the RAOB profiles on the afternoon of Monday, 6 August, was not accompanied by a significant acoustic sounder return for the same period. The shallowest and the most stable marine layer conditions of the test period occurred immediately after the period of greatest instability and persisted for 12 hours on Tuesday, 7 August.

Figure 14 and table 3 show comparisons of the soundings made at NAS Miramar (NKX) and Montgomery Field, and the San Diego APCD (selected acoustic sounder returns). Relative agreement exists for mixing layer heights on days when data were available for all 3 sources. The best agreement was between Miramar and Montgomery Field soundings. The APCD acoustic sounder returns plotted in figure 14 were derived by smoothing and analyzing the more detailed returns provided by the APCD chief meteorologist (figures 15 and 16).

Table 2. Pasquill Stability Class and Mixing Layer Depth, NAS Miramar, 1 to 7 August 1979

TM = TIME (PST)

WND + WIND (TENS OF DEGREES TRUE & KNOTS)
TC = TOTAL CLOUD COVERAGE (TENTHS)

SI = STABILITY INDEX (PASQUILL)

MLD = MIXING LAYER DEPTH (METERS)

79/08/01 (Wed)

79/08/02 (Thur)

79/08/03 (Fri)

79/08/04 (Sat)

13/00/01 (1100)						7 07 007 02 (11101)						10,00,00 (71)												
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02	0000	10	4	386		02	0000	10	4	634		02	0000	10	4	681	Ī	02	3504	10	4	313		
03	0000	10	4	386	1	03	3103	10	4	628		03	0000	10	4	681	1	03	3401	10	4	313		
04	0000	10	4	286		04	3302	10	4	628		04	0000	10	4	681	ļ	04	0000	10	4	313		
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07	0000	10	4	451		07	0000	7	3	654		07	0000	6	3	663		07	0000	10	4	415		
08	0000	10	4	462		08	2401	3	3	679		80	1901	1	1	637	Ì	08	0000	10	4	504		
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10	2802	0	1	567		10	1902	1	2	740		10	2001	0	1	732		10	3501	0	1	611		
11	3004	0	1	547		11	2706	0	3	748		11	2605	0	1	719	}	11	2803	0	1	627		
12	2504	0	1	674	l	12	3105	0	3	731		12	2004	0	1	725	1	12	3106	0	2	631		
13	2705	0	1	493		13	2907	0	3	660		13	2006	0	2	702	1	13	2908	0	2	461		
14	3005	0	2	485		14	3105	0	3	660		14	2207	0	2	695	}	14	3008	0	3	506		
15	2707	0	2	490	i i	15	2706	0	3	656		15	2601	0	1	702	ĺ	15	2906	0	2	461		
16	3105	0	3	478	}	16	2703	0	2	651		16	2806	0	3	687	}	16	2906	0	3	445		
17	3206	0	3	455		17	2503	0	3	638		17	2704	0	3	652	ļ	17	2905	0	3	416		
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24	0000	10	4	448	}	24	0000	10	4	457		24	3503	10	4	408	}	24	0000	10	4	335		

79/08/05 (Sun)

79/08/06 (Mon)

79/08/07 (Tues)

TM	WND	TC	SI	MLD		TM	WND	тс	SI	MLD		TM	WND	тс	SI	MLD
01	0000	10	4	422		01	0000	7	6	197		01	3402	0	7	217
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03	0000	10	4	302		03	0000	6	6	178		03	0000	0	7	159
04	1802	10	4	422	1	04	0000	4	7	182		04	0000	0	7	159
05	0000	10	4	422		05	0000	6	6	186		05	0000	0	7	162
06	0000	9	6	438		06	3503	4	7	197		06	0000	0	7	198
07	1701	9	3	486		07	3204	3	3	222		07	0000	0	2	212
08	0000	9	3	529		80	3403	2	2	248		08	0000	1	1	418
09	2502	8	2	570		09	3104	2	2	275		09	0000	1	1	651
10	0000	9	2	641	}	10	3005	4	2	648	1	10	2903	3	2	774
11	2003	10	2	687		11	3105	4	1	1059		11	2906	7	2	651
12	2002	10	2	717	l	12	2906	3	2	1059		12	3007	7	2	533
13	2704	10	3	510		13	2804	2	1	1236	1	13	2908	7	3	813
14	2903	9	2	510		14	2708	1 1	3	1423		14	2908	5	3	813
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16	2702	10	3	421		16	2606	4	3	1306		16	2806	3	3	745
17	2502	10	3	396]]	17	2706	5	3	1182		17	2806	2	3	605
18	2401	10	6	371		18	2803	5	6	876		18	3105	2	6	484
19	2403	10	6	348		19	3004	5	5	318		19	3001	2	7	396
20	0000	10	6	326	1	20	0000	8	6	290		20	3002	2	7	294
21	0401	10	6	298		21	0000	5	6	219		21	3102	1	7	216
22	0000	10	6	272		22	0000	3	7	219		22	0000	0	7	182
23	0000	9	6	251		23	0000	3	7	210		23	3001	0	7	226
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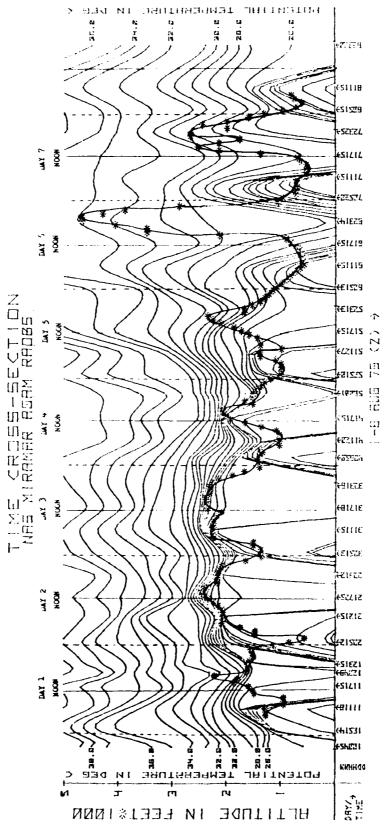
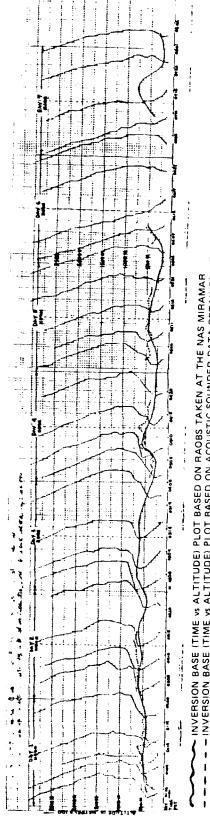


Figure 12. Time Cross Section of the Potential Temperature Field and Plot of the Mixing Layer Depth Shown in Table 2.



► INVERSION BASE (TIME vs ALTITUDE) PLOT BASED ON RAOBS TAKEN AT THE NAS MIRAMAR - - INVERSION BASE (TIME vs ALTITUDE) PLOT BASED ON ACOUSTIC SOUNDER DATA OBTAINED AT APCD, SAN DIEGO

Figure 13. Rawinsonde Temperature Profiles and Time Section of Analyzed Inversion Heights for NAS Miramar.

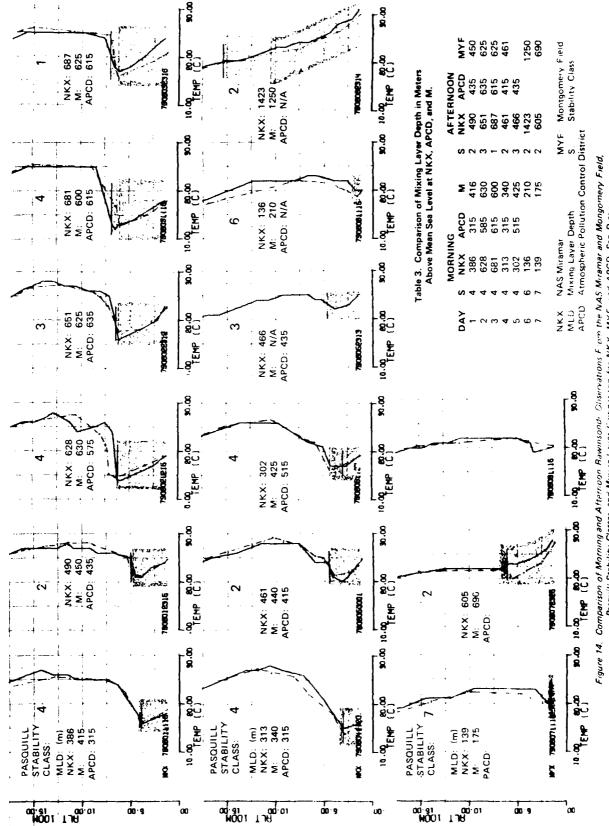


Figure 14. Comparison of Morning and Afterroon Rawinsond[,] Cisservations From the NAS Miramar and Mongomery Field, Pasquill Stability Classes, and Mixing Layer Compar con for NKX, MYF, and APCD, San Diego.

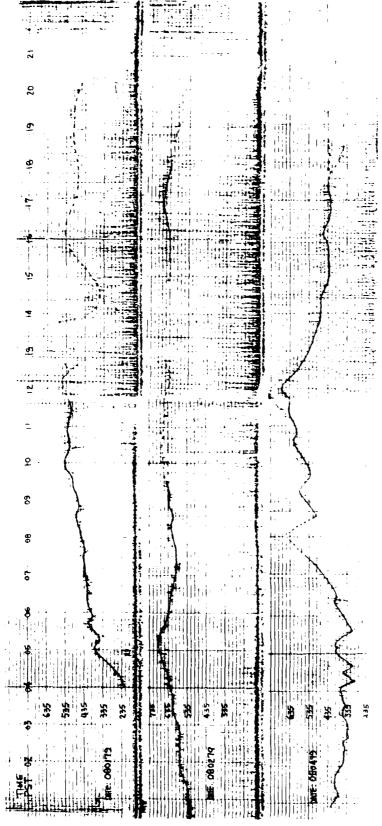


Figure 15. Acoustic Sounding Data Taken at the Air Pollution Control District, San Diego. 1, 2, and 4 August 1979.

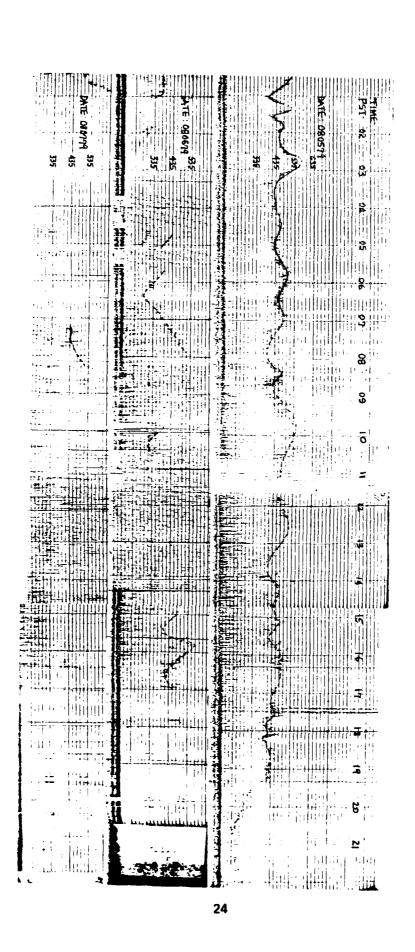


Figure 16. Acoustic Sounding Data Taken at the Air Pollution Control District, San Diego, 5, 6, and 7 August 1979.

SUMMARY OF FINDINGS AND RECOMMENDATIONS

This report has summarized the PACMISTESTCEN support for the AQAM evaluation test at NAS Miramar Support consisted of planning of the measurement test period based on criteria derived from numerical analysis of climatological data, provision of operational day-to-day forecasts to plan monitoring efforts, both surface and appear air measurements employing the high-resolution PACMISTESTCEN-modified rawinsondes and transported equipment, onsite and post operation data evaluation, reduction and analysis of data, and meteorological interpretation services.

The time period recommended for the AQAM tests proved to be highly representative and repeatable in terms of weather conditions with adequate wind flows, prevailing wind directions, mixing layer depth, and stability variations. The PACMISTESTCEN rawinsonde unit released a total of 33 RAOBS from NAS Miramar. Data from these soundings compared very closely with 15 San Diego/Montgomery Field soundings as well as with nearby acoustic sounder returns obtained by the San Diego County APCD. The similarity of mixing layer depths for the 3 sites coupled with the prevalent flight safety control problems presented at Miramar is a good basis for considering alternative upper air sounding locations if additional measurements are required.

CONCLUSIONS

The actual experience obtained from day-to-day weather forecasts indicated that the predictions were an accurate and useful osurce of guidance with which to plan and conduct monitoring activities. Should the model validation be performed again at Miramar or at other selected locations, a diverse group of meteorological services such as the ones described in this report should again be provided as a means of realistically planning, evaluating, analyzing, measuring, and interpreting test conditions with due consideration for the meteorological environment.

For future AQAM tests, air mass trajectory analysis techniques, such as those currently under development by PACMISTESTCEN, should be used to determine the effects of the horizontal transport of air.

REFERENCES

- Naval Postgraduate School. Sensitivity of AQAM Prediction for Naval Air Operations to Meteorological and Dispersion Model Parameters. by D. W. Netzer. Monterey, California, May 1978. (Technical Report NPS-67Nt78051) UNCLASSIFIED.
- California State University, Northridge. Multiple Regression Analysis of Winds, Mixing Depths, and Pasquill Stability Indices at NAS Miramar, by Gong-Yuh Lin. Northridge, California, 31 August 1979. (Unpublished Report) UNCLASSIFIED.

APPENDIX A

FOUR-WAY JOINT RELATIVE FREQUENCY OF OCCURRENCE
OF MIXING DEPTH, STABILITY AND WIND
BASED ON MONTGOMERY FIELD RAOBS AND
MIRAMAR SURFACE OBSERVATIONS

APPENDIX A

FOUR-WAY JOINT RELATIVE FREQUENCY OF OCCURRENCE OF MIXING DEPTH, STABILITY, AND WIND DIRECTION AND SPEED BASED ON MONTGOMERY FIELD RAWINSONDE OBSERVATION AND NAS MIRAMAR SURFACE OBSERVATIONS

INTRODUCTION

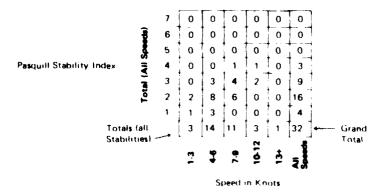
The examples below and the tabulation on the following page give the relative frequency (in tenths of percent) of occurrence for mixing depths, wind directions, Pasquill stabilities, and wind speeds. Each box gives frequencies by stability and speed for a given mixing depth-direction category. The bottom row of boxes gives totals for all mixing depths, and the far right-hand column of boxes gives totals for all directions (limited to 100-010 degrees). The bottom right-hand box gives totals for all depths and speeds.

Example: Given stability index = 2 speed = 5 knots (in 4 - 6 class) mixing depth = 1,750 feet (1,500-2,000 ft class)

direction = 235 degree (230-250 degree class)

Then frequency of

occurrence = 0.8% (8 tenths %)



Example "box" for mixing depths (1.500- 2.000 feet) wind direction (230- 250 degrees)

Key to Four Way Frequency Table

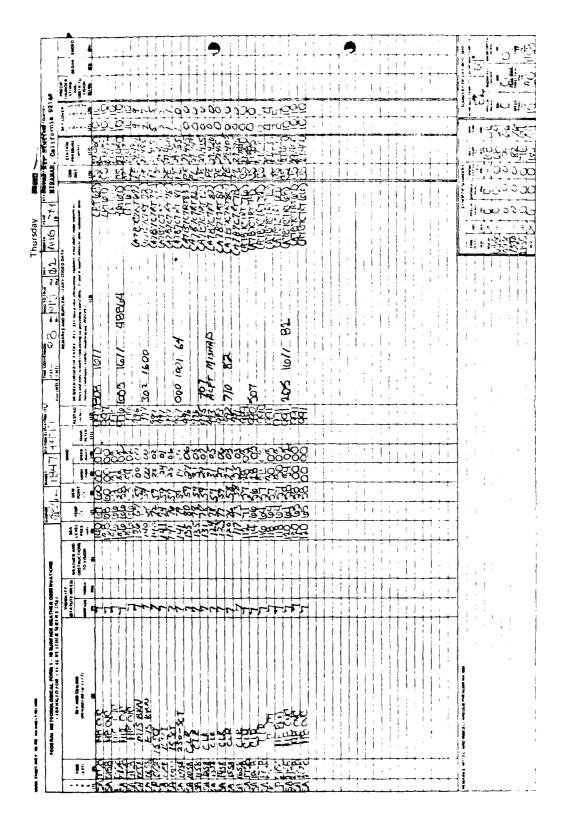
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APPENDIX B

SURFACE WEATHER OBSERVATIONS BY NAVAL WEATHER SERVICE ENVIRONMENTAL DETACHMENT (NWSED), NAS MIRAMAR FROM 1 TO 8 AUGUST 1979

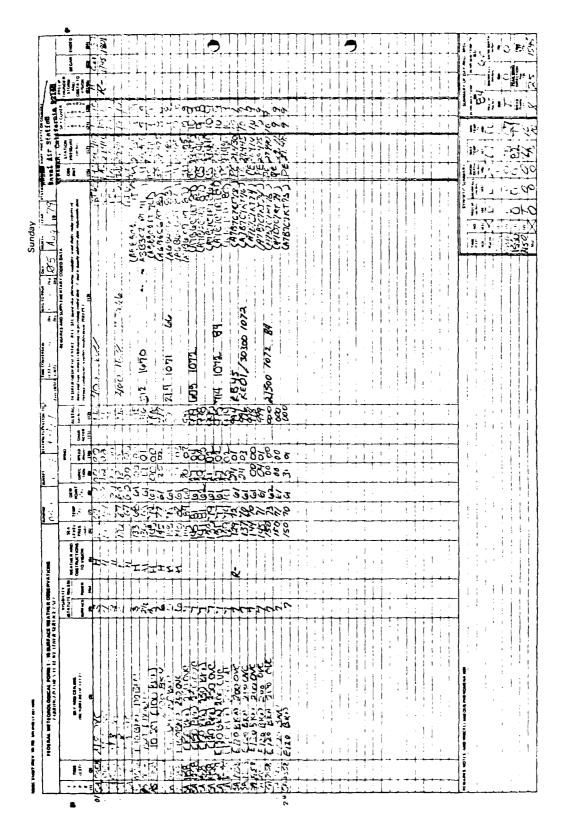
Surface Weather Observations made at the NWSD, NAS, Miramar from 1 to 8 August 1979.

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APPENDIX C

SURFACE WEATHER OBSERVATIONS AT PACMISTESTCEN RADIOSONDE OBSERVATIONS SITE FROM 1 TO 8 AUGUST 1979

Surface Weather Observations from the PACMISTESTCEN RAOB Site at the NAS Miramar from 1 to 8 August 1979.

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APPENDIX D

THE PACMISTESTCEN RAWINSONDE OBSERVATION DATA REDUCED AT THE GEOPHYSICS DIVISION, PACMISTESTCEN, POINT MUGU, CALIFORNIA

03/11/80

VERSION NO. 45

RAWINSONDE DATA (WBS.1)
STATION, PNAS MIRAMAR, CALIF.
0045Z 01 AUG 1979
FOR OP. NO. NONE
ASCENT NO. 001
INTERMEDIATE OUTPUT VERSIC

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10 (C)	9.5	2	15.0	0.01	•	┏	-8.8	=	-11.3	_	•	13.7	₽•4	-4.3	2.1	.5	5,6	5,3	6.9	1,3	3.2	5.2	6.5	6,3	6.0	8.	-2.4		S,			-24.0	ë	-46.9	٠.	-49.1	
i (C)	26.6		55°B	0.	26.1	25.4	26.6	27.0	27.3	27.8	9.93	5.6	9.5	8.9	4.5	0.4	3.8	9.2	21.3	9.6	19.2	17.7	16.5	15.5	5.41	13.7	13,5	12.0	9.6	7,3	5.4	4.2	4.7	6.4		* :-	33333)
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03/11/80

RAWINSONDE DATA (WBS 1)
STATICN, PNAS MIRAMAR, CALIF.
JS14Z 01 AUGUST 1979
FOR OP NO NONE
ASCENT NO 002
INTERMEDIATE OUTPUT VERSIO

VERSION NO. 45

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HIX (G	14.10	13.87	13.43	1.35	•10	.21	• 20	•23	.24	.24	8.04	6.27	4.52	11	1.35	5.44	E+.+	4.29	3.29	1.75	1.64		,						- 1			- 1	.08	.07	90.
ZONO	•	640.	-0.016	-1.181	-0.102	-0.011	-0.008	-0.012	-0.00	-0.00B	060.	-0.030	-0.030	-0.058	•	140.	-0.017	-0.008	-0.03	-0.023	-0.006	.001	-0.008	-0.006	• 005	-0.011	-0.007	-0.009	-0.010	.012	-0.012	-0.005	-0.005	-0.005	-0.00-
				24.1		28.6	29.4	32.9)	35.6							i				42.5												52.6	93.5	44.2
ABS	14.0	16.13	15,35	1.52	.22	.2.	•2•	•25	.25	•25	9.17	6.34	4.59		1.30	5.13	4.23	4.03	3.02	1.63	1.60	2.01	1.76	1.77	2.64	1,13	1.36	19.	90.	.56	.00	900	•0•	.05	•0
Z 6	00	02	60	10	-	15	20 0	25	30	35	0 04	6 5	50	55	0 09	65	70	75	90	85	0 06	96	100	105	110 0	120	130	140	150	152	160 0	170	180 0	190	200
A S	101	359	351	265	255	251	248	242	239	235	278	264	250	224	224	544	236	232	223	212	210	2)0	206	203	506	196	190	162	173	175	166	161	157	152	44
SPÔ	5	0	0	0	0	•	0	0	0	0	0	0	25	q	•	0	\$	0	W	d	•	0	6	0	13	7	10	•	71	0		21	92	27	Ę
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P (MB)	0.77	995.0	977.0	974.5	971.0	960.0	946.0	931.0	916.0	901.0	986.0	872.0	858.0	845.0	831.0	817.0	803.0	789.0	776.0	763.0	150.0	738.0	725.0	713.0	700.0	678.0	657.0	636.0	614.0	610.0	594.0	574ac	554.0	535.0	617.0
ŤĎ (CÍ	27.5	18.7	17.9	-14.0	-35.2	-34.4	-34.2	-33,7	-33.8	-33.8	9.6	5.0	•	-21.2	-15.0	1.9	8.0.	-1.5	-5.4	-61303	-13.6	-10.8	-12.5	-12.5	-7.5	-12.9	-15.9	-22.0	-4747	-26.3	-47.1	24749	-48.7	6.64-	-41.2
(C)	2.	18.8	18.0	21.9	24.1	25.1	24.6	26,7	26.5	26.5	24.4	24.1	54.6	25.3	24.1	22.5	21.6	20.8	19.5	1806	17.6	16.1	1667	14.1	12.6	1003	0.0	5.7	9.6	3.3	*. 7	303	2.0	•	47.0
T Öler	•	0	0	719	0	٥	851	a	926	•	960	•	922	q	916	0	979	•	970	9	956	•	945	•	971	877	856	817	246	0	984	918	246	325	
HIPT.	445	576	1092	1164	1267	1593	2015	2474	2943	3419	3903	4360	4825	\$26A	5743	6259	6122	7221	7692	4144	1690	9101	2555	10056	10566	11443	12299	13176	14118	14293	15002	15911	16859	17701	19476

03/11/80 1237:29					
_	CALIF				VERSION NO. 45
RAWINSONDE DATA (WBS-1)	STATION, PNAS MIRAMAR, CALIF.	11182 01 AUG 1979	FOR OP NO. NONE	ASCENT NO. 003	INTERMEDIATE OUTPUT

	HT DIFF	10	Total	(EE) d	Æ	810	SPO	æ	ZII	ABS	1	DNDZ		ō	PETS	HEAD	PUSUA
		18.0	17.9	9.666	6	250		356	00	15.24	18.0	٥					
150	a	17.0	16.3	985.0	96	6	0	345	0.5	13.84	18.2	-0.026			.073	1.85	1.65
1261	•	16.4	15.7	971.0	96	120	-	339	10	13.34	18.8	-0.015		l	990	1.68	3.53
2000	628	24.1	-35.3	943.0	~	352	•	247	02 20	.28	29.1	-0.111			190.	1.69	5.23
2519	4	25.2	-34.6	929.0	-	0	d	243	52		31.6	-0.011		- 1	1000	60	5.25
5962	999	25.2	-34.6	918.0		204	-	239	<u></u>	.2	32.9	-0.008			.00	•03	5.29
3494	•	25.2	-16.7	898.0	so.	0	0	240	36	1.20	34.6	• 005		_	• 005	. 1.	0+.0
3618	999	25.7	-34.3	988.0		334	-	232	9	.24	36.0	-0.026			.003	.04	5.47
4273	•	26.4	-33.9	874.0	_	_	0	822	5	52.	38.2	-0.000	•	Г	.001	. 03	5.50
4785	• • •	26.6	-33.7	861.0	~	327	15	554	90	.29	39.8	-0.008		-	.001	• 63	5.54
9144	•	25.7	-34.3		-	•	0	222	89 100	•2•	40.1	-0.006		_	.001	.03	5.57
5500	883	25.0	-34.7	035.0	-	326	15	219	99	.23	40.8	-0.007	1	ĩ	100	.03	5.60
6636	•	24.3	-35.1	822.0	~	•	0	216	6.5	.25	41.5	-0.007			.001	.03	5,63
6493	10	23.2	-28.0	809.0	7	315	11	214	70		41.7	-0.003			-005	•0•	5.67
6741	•	22.3	-19.3	802.6	s	•	0	516	2	6.	41.5	.008		"	-005	• 0 5	5.73
1304	643	21.4	-36.9	784.0		306	~	208	0	•1.	42.6	-0.013		•••	•00•	:	5.84
4244	878	19.3	-38.2	760.0	1	10	9	203	90	1	43,1	000-0-	- 1	- 7	+002	• 05	5.89
916	900	16.8	-39.7	736.0		73	*	198	100		43.3	-0.009		•	-005	•0•	5.93
10047	883	14.4	-22.0	713.0	•	4	€0	197	110	64.	43.6	-0.001		•••	• 005	-15	6.05
14912	865	12.5	-4243	691.0	1	149	7	186	120	7	44.3	-0.010		1	+00+	.11	6.16
1178	788	10.2	-43.6	0.699	-	167	=	184	130	.10	4.0	-0.005		•	.001	•03	6.19
1275	•	8.1	-45.0	647.0		160	o	179	140	90.	45.4	-0.005		• •	.001	.02	6.21
1	134	642	-4601	625.0	1	138	•	174	150	00	46.3	-0.005	- 1	٦,	100	• 05	6.23
14561	616	3.6	-46.5	0.409	-	95	Ę	169	160	•	48.9	-0.006		•	.00	20•	6.25
19461	103	5.3	-46.7	584.0	-	6	5	163	170		51.6	-0.000		•	.001	-05	6.27
20191	116	209	-4841	564.0	4	70	97	5	901	90.	\$20.1	-0.00	•	T	.00	-05	6.59
1774		•	**	948.0	-	Σ;	20	355	190	50.	52.7	10 · 0 · 0	-	5274	.001	20.	6.31
		7.	-20.	251.0	-	č	21	121	007	•	23.0	100.01		•	.00		35.0
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HAWINSONDE DATA IWESTRY STATION, SNAS MIRAMAR, C 17152 01 AUG 1979 FOR OP NO NONE ASCENT NO, 004 INTERMEDIATE OUTPUT	STATION, SNAS MIRAMAR, CALIF 17152 01 AUG 1979 FOR OP NO NONE ASCENT NO. 004 INTERMEDIATE OUTPUT VEF	RAMAR, C	ALIF.	NO. 45	03/11/20	2	- 0007										
H(FT) 445 848	HT DIFF	7 (C) 25.3 23.6	15.4	P (MB) 1000.9	T 48 8	160 160	SPD	333 329	İ	A85 12.7	23.	DND2	MIX(G/K 11.02		.061	PUNN 1.54	PWSUM 1.54
1290	n 00	25.3 25.3 25.3	• • • • • • • • • • • • • • • • • • •	979 966 956 959	60 60 60 60 60 60	0 0 0 0 0 0	- 00	323 321 311	 			999	000	383 646 510		1.51 .69	m m 4
2633	775	26.0	-25.5 -17.1	944.0	្តសស	171	400	0 6 0 4 0 0 0 0 0 0 0		O	980	•		620 750 864	.023	.34	5.07 5.18 5.52
3312	000	28.0	-20.7	0000	n-:	274	 OB)	232 232	20 4 0 4		37.	000	`	1009	2003	620	5.82
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	753	200	****	674.0	25 25	204 186	- 10 00 5	702	_	4.00	*	0000	~~ ~~	3317 3567 3567	# 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 3	9.11
200	913	7.0	25.2	615.0	200	169	202	1691	150			900	 	4319	9100	2	13.27
	25.0	3.0	77.77	40 00 00 00 00 00 00 00	-N	9 -0	do 48	150			4 91 .			4522 4715 4998 5289			14.01
	933 662 (PAUSE	TH	_	527.0	-	20	\$2	150	200	•	•	-0.00	.07	5573	100.		14.64

03/11/80

RAWINSONDE DATA (WBS-1)
STATION, SNAS MIRAMAR, CALIF.
20152 01 AUG 1979
FOR OP. NO. NONE
ASCENT NO. 005
INTERMEDIATE OUTPUT
VERSIC

VERSION NO. 45

15.1					,		•								•
,	1000.0	80	270	6 0	329	0	_	2.40	_	0	10.83	136			
	985.0	ŝ	0	0	332	5	~	2.86	_	.005	11.31	56 3			
•	970.0	63	255	=	326	9	0	2.68	٠.	0.00	11.21	403			
•	960.0	65	0	0	325	=	_	2.36	٠.	0.012	11.06	6			
•	956.0	25	•	0	277	51	1	4.59	Ŀ	20+00	4.15	530			. !
•	951.0	15	0	•	267	11		3.57	Τ.	0.062	3.20	575			
m	942.0	12	234	•	292	20	•	2.99	_	0.021	5.64	629			
~	928.0	12	0	٥	258	52		3,02		0.000	2.12	191			
	913.0		232	•	253		•	2.83	Ι.	0.011	_2.50_	934	1	1	
•	899.0	Ξ	0	•	249			2.83	_	0.000	29.2	1070			
0	886.0	=	281	•	546			2.83	_ :	00000	2.65	1198			
Š	872.0	15	0	0	248	4		3.96	_	100.	3.91	1338			
•	858.0	16	344	**	245	8	•	4:15	_	9.000	4.24	1461			
6	832.0	16	334	.22	238	9		3,85	_	900.0	4.00	1753			
	807.0	15	337	20	229	70	0	3.23	42.7	-0.010	3.45	2020	.037	• 95	9.09
•	783.0	7	334	7	226	8	•	3.39	_	0.00	3.63	2283			_
		i		!								į			

PWSUM		1.72	3.48	3.79	*	4.33	4.56	4.83	5.05	5.38	5.86	6.29	6.67	7.00	7.70	8.43	62.6	10.20	11.02	11.72	12.34	12.87	13.39	13.64	13.94	14.32	14.51	14.62	14.72	
HHAd		1.72	1.36	•31	٠2	.33	• 55	.27	.22	÷	.+.	*	.38	.33		.75	•	6.	.	٠.	-62	.53	.52	9	• 5		-	=	•	: !
PWIN		.068	.069	•012	.008	•013	600	.611	600.	• 013	• 10	.017	•015	.013	.028	• 030	• 033	•036	• 032	.028	• 025	.021	.020	210	.010	.015	-00	+00.	100	
G) FI (M.	136	260	421	466	521	697	630	965	1101	1230	1362	1495	1630	1766	2033	2295	2565	2841	3112	3377	3650	3916	4189	. 939	4470	4759	5043	5321	5892	
IX IG/K	99.21	1.58	. 63	4.67	5.19	1.22	1.93	1.92	1.24	3.75	3.40	3.23	2.5	2.42	3.09	3.09	3.77	3.73	3.23	3.07	2.51	2.43	2.45	2.86	2.21	1.30	.36	.55	.59	
DND	•	0.020	0.056	0.138	0.115	-0.021	0	-0.008	0.016	.021	0.012	900.0	0.015	0.007	0.003	0.007	0.001	900.0	600.0	900-0	600.0	900-0	9.00.0	100.0	0.032	0.010	60000	0.005	9.00%	
F	27.0	-	1	_	-																								55.4	
ABS	14.40	13.07	95.6	5,25	2.48	1.42	2.01	1.99	1.39	3.67	3.45	3.24	2.51	2,39	2.86	2.17	3.37	3.25	2.13	2.60	2.06	1.91	1.69	2.22	1.67	96.	•	•	.37	i
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ā	341	333	303	283	592	250	250	247	2	248	243	240	233	230	228	222	122	215	207	202	194	189	165	184	179	169	197	156	152	
SPD	•	0	•	0	•	•	0	•	0	•	0	9.	•	19	16	12	•	_	m		•	•	12	0	17	1	•	15	27	
D18	270	0	274	•	0	254	0	258	'	316	0	345	•	336	328	329	344	55	262	238	227	213	189	•	164	162	129	85	67	
ă	56	9	~	9 2	2	s	6 0	6 0		<u>*</u>	15	2	2	70	1.	15	20	22	2	22	20	22	7	5	54	15	_	_	•	
P (HB)	1000.0	986.0	968.0	963.0	957.0	938.0	924.0	910.0	896.0	683.0	0.020	657.0	844.0	631.0	806.0	782.0	758.0	734.0	711.0	689.0	667.0	646.0	625.0	614.0	604.0	583.0	\$63.0	544.0	526.0	
10(0)	17.5	15.8	9.3	2.2	1.1	-14.6	-10.3	-10.5	-14.8	-2.5	-3.5	7.4.	-7.5	-6.2	-6.0	-6.5	0.4-	-4.7	6.9-	4.7-	-10.7	-11.7	-12.0	-10.0	-13.6	-20.0	-29.1	-29.8	-30.7	
3);	27.0	24.1	22.9	22.7	26.0	27.5	27.0	26.7	27.0	20.0	20.7	27.5	26.2	25.1	23.2	21.6	19.6	17.4	15.4	13.4	11.3	6.	7.3	9	5.3	3.9	5.8	1.6	~	333331
1 0166	0	•	937	o	•	906	•	877	•	871	0	698	0	AA9	876	863	883	906	689	972	894	874	960		922	946	931	911	689	
H(FF) H	445	853	1382	1530	1709	2288	2723	3165	3613	4036	1944	4905	5347	4796	6670	7531	8414	9320	10209	11081	11975	12849	13745	14225	14667	15615	16546	17457	16346	A FTN 062

03/11/80					
	CALIF				VERSION NO 45
RAMINSONDE DATA 17785 1.	STATION PNAS WIRAMAR CALIF	2315Z 01 AUGUST 1979	FOR UP NO NONE	ASCENT NO. 007	INTERMEDIATE OUTPUT

1257:45

PWSUM

20.7 14.1 20.7 10.3 20.7 10.3 20.7 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5		E 1		e de	¥ (Z (ABS	<u>.</u>	70N0	MIX (6/8	G) K.E)	Z 3 0	I I I
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		89	0	0	326	90	11.80	24.1	-0.015	10.37	5 6 ¢	920.	*6:1
		99	0	0	325	60	11.87	23.3	-0.002	10.51	392	•0•0	1.17
		51	302	۰	309	30	9.23	53.6	-0-140	8.12	428	.015	.36
		21	a	0	276	, eq	3.74	23.9	-0.372	3.33	455	-007	-1-
		• 6 0	•	•	260	13	1.81	28.3	-0.108	1.61	200	-005	. 13
		•	568	s.	549	20 0	. 85	31.4	-0.021	68.	999	600.	.23
		7	0	0	241	27	•39	32.9	-0.013	.45	845	.005	.13
		-	307	80	238	30 0	•26	34.4	-0.013	•2•	925	.001	•03
		11	٥	0	248	37	2.91	36.8	.019	2.17	1087	010	92.
		-	313	o	546	0	2.95	37.8	-0.008	2.84	1156	.008	• 50
		֚֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟	0	0	243	45	2.91	38.6	-0.008	2.85	1266	.012	.32
		: :	329	10	240	50	2.81	39.8	-0.009	2.86	1388	•014	• 35
		8		9	233	55	2.06	41.0	-0.019	2.11	1501	110	8
	.2 843.0	•	348	91	226	90	1.47	42.0	-0.015	1.58	1625	600.	.22
		•	0	0	552	65	1.52	+2.2	-0.005	1.51	1741	100.	•17
	i	60	333	16	. 225	70	1.95	45.4	.001	1.93	1858	800.	6
		1	324	18	225	80	2.23	43.2	+00-0-	2.48	2106	• 020	
		<u>*</u>	331	11	220	0 06	5.59	4 3.1	-0.002	2.79	2348	.023	• 59
		16	346	Ŋ	215	100	2.60	43.8	900.0-	2.95	2596	• 025	• 9 •
		18	323	•	211	110 0	5.59		-0.005	5.99	2838	.025	.63
		17	295	•	204	120 0	2.16	44.7	-0.008	5.59	3085	.023	• 60
1		17	0	0	201	125	2.04	45.0	-0.007	2.47	3217	.01	• 28
		15	287	ø	198	130	1.77	0.94	-0.011	2.18	3326	800.	.21
		7	259	^	192	140	1.56	46.3	900.0-	1.94	3573	•016	~ ₹
1		18	230	0	189	150	1.66	46.5	+000-0-	2.07	3825	• 10	7
9.2		22	209	10	186	160	1.88	47.5	+0000-	2.36	4071	-017	
9.9		21	199	*	180	170	1.55	48.5	900-0-	2.08	4322	.013	.43
61- 64	:	15	227	10	172	180	1.01	4.64	-0000	1.36	4580	.013	.33
3.2 -28.		_	173	×-	165	190	45	50.3	600.0-	.58	4830	200	a
1.9 -35,		•	109	11	159	200	.23	5).6	-0.007	.31	5085	.003	.08

RAWINSONDE DATA (WBS-1)		03/11/80
STATION, PNAS MIRAMAR, CALIF	CALIF	
0512Z 02 AUGUST 1979		
FOR OP, NO. NONE		
ASCENT NO 008		
INTERMEDIATE OUTPUT	VERSION NO. 45	

MASON		1.79	3.56	6.43	5.06	6.23	5.35	5.59	29.9	5.65	99.9	6.71	6.74	6.75	9.80	9.96	6.91	96.9	7.00	*00	2.00	7.15	2.50	500	7.48	7.50	-34	1.51	7.51	7.53	7.55	
P HIN				-	_			_	.03	-						_						-							- 1			
d NIAd		1 110	L 040	.034	025	940	500	600	100.	100	100	.001	.001	000	200	-005	200	200	200	200	100	.003	900	500.	200	.001	000	000	000	100	100	
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IX (G/KG)			i						. 23		į				ĺ		į						i		•	•		-	1			
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ABS	14.58	14.49	14.17	13.82	14.27	5.81	3,39	•24	.25	• 25	.25	.24	•24	•25	.23	.22	.21	•19	•16	• 15	.13	.43	28.	.33	.08	.07	-0.	.0B	80.	-01	•00	
			•				0		0		0				0	0	•	0	0	0	0		!						!			
Z	00	0.5	10	13	*	19	20	52	30	32	0	4.5	50	52	9	70	90	90	100	110	120	130	140	150	160	170	775	178	180	190	200	
ä	353	349	446	340	341	586	270	242	539	235	232	558	526	554	220	214	509	204	200	195	190	188	187	180	175	171	170	166	165	161	158	}
SPD	2	0	•	0	0	0	0	6	0	0	0	0	0	0	0	0	11	15	13	14	15	13	12	12	٠	4	0	0	1	13	19	
DIR	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	311	301	290	287	273	260	260	292	244	253	•	0	123	96	102	
ă	4	66	100	66	66	36	20	-		-	-	-	~	-	_	_		-	-	4	_	•	6 0	•		-	_			_	-	
P (MB)	999.2	985.0	971.0	964.0	959.0	946.0	943.0	959.0	915.0	901.0	889.0	877.0	864.0	859.0	840.0	816.0	793.0	770.0	748.0	726.0	704.0	684.0	665.0	0.949	658.0	610.0	606.0	597.0	593.0	577.0	561.0	
1 0 (C)	17.1	17.0	16.7	16.2	16.8	3.5	-3.9	-34.2	-34.0	-33.7	-34.0	-34.2	-34.3	-33.9	-34.6	-35.3	-35.9	-36.8	-38.5	-39.4	-40.7	-28.7	-21.3	-31.7	-45.8	8.94-	6.91-	-45.8	-45.9	1.94-	-47.5	:
1 (0)	17.6	17.1	16.7	16.3	16.9	18.6	19.7	55.9	26.2	56.6	26.2	25.9	25.7	26.4	25.2	24.0	23.1	21.5	18.6	17.1	15.1	12.7	11.0	o. 60	6.8	5.0	E.4	8.9	9.9	5.5	3.8	33333
HT DIFF	0		805	0	•	0	823	•	864	0	831	•	621	0	911	831	816	837	819	936	858	196	114	161	165	782	0	o	159	735	753	52 (PAUSE
HIET	445	848	1250	1454	1600	1984	2073	2500	2937	3361	3768	4159	4589	4756	2400	6231	7047	7884	8703	9539	10397	11193	11967	12758	13523	14305	14481	14883	15064	15799	16552	A F IN . 062

121	766 15.2 15.0 994.0 81 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		000 000 000 000 000 000 000 000 000 00	112 00 11 12 00 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 4 4 5 M 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.2.2.10.10.10.2.2.2.2.2.2.2.2.2.2.2.2.2		7.44 V1000 0000000000000000000000000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
15.2 15.0 984.0 877 0 938 05 12.77 18.6 0.0013 10.55 0.55 0.55 1.05 0.0013 10.55 0.55	17.2 15.0 984.0 94 19 15.2 15.1 971.0 94 19 19 19.2 15.2 946.0 94 19 19 19.2 13.6 946.0 15 14.0 15.2 13.6 946.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 14.0 15 15 15 15 15 15 15 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112.74 112.90 11.96.00 11.86.00 2.12.00 2.24.0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	10.43 10.73			
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15.2 14.2 956.0 94 0 0 330 15 12.19 18.7 -0.017 10.73 484 .057 13.8 946.0 94 0 0 326 20 13.86 19.86 10.18 10	15.2 14.2 958.0 94 10 13.2 946.0 94 10 13.8 946.0 94 10 13.8 946.0 94 10 13.8 946.0 15 144 15.8 946.0 15 144 15.8 946.0 15 144 15.8 946.0 15 144 15.8 146.0 15 144 15.8 146.0 15 144 15.8 146.0 15 144 146.0 15 144 146.0 15 144 146.0 15 144 146.0 15 144 146.0 15 144 146.0 15 144 146.0 16 144 146.0 16 144 146.0 16 144 146.0 16 144 146.0 16 144 146.0 16 16 144 146.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0 144.0 16 144.0 16 144.0 16 144.0 16 144.0 16 144.0		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	112 19 11 1866 11 12 21 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	- m mis .a.a.a.a.m	10.13 10.18 10.19 10.19 10.19 10.22 10.23			4 NN N N N N N N N N N N N N N N N N N
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PWSUM		1.03	3.17	5.74	6.08	6.24	44	•	2	0	00	0.0	• 1 •	27.1	7.36	7.74	8.08	8.37	H.76	9.23	69.6	00.0	10.11	10.51	10.86	11.16	11.40	11.55	11.62	11.69	
O. M		.03	2.14	2.58		9				9.7	6	-0.	•00	.00	4	.38	•3	-29	.39	• • •	94.	~	.23	5	• 35	.31	2		90.	-0	
2 3		0+0	•080•	101		900		.00.		- 00 -	•00•	• 003	200•	.003	• 005	-015	•013	.011	• 015	•018	.018	.008	900.	•015	•10.	•012	600	900.	.003	•003	
Ĩ	136	251	904	621	667	723	9 0	000	5.5	1024	1178	1289	1401	1514	1628	1860	2097	2329	2565	2808	3056	3175	3297	3543	3783	4056	4280	4 554	4773	5031	
x (6/KG)	٠٥٥	- 79	.27	. 88	.52			20.	50	•	9.	.52	.53	.03	••5	86.	• 0.5	79.	90.	٠. د د د	-07	.12	-05	*8	.81	1.36	9	7.	ż,	.36	
UNDZ MI															- 1	Ł														-0.006	
	'n.																													53.7 -0.	
																i						1									
ABS	12.64	11.29	11.65	12.06	44	0	7	2.5	* ~ ~ .	8.	.8	• 56	• 56	1.03		1.91	1.05	80	1.76	2.0	1.82	1.86	1.7	1.53	-	1.06	•	Ä.	•56	92.	
			c	•	•	0			0		0		0		0	i	0		90	٥						0		0		0	,
2	00	0	~			200	20	52	2	35	•	\$5	\$0	55	9	2	90	ó	001	110	120	125	150	0	150	160	170	180	190	200	
ľď	334	327	326	400	4	# 3 D U	634	255	548	536	233	553	226	226	226	225	215	, ,	210	207	202	200	161	192	188	181	175	168	164	159	ı
SP	7	c	· «	· c	•	•	Þ	0	9	0	6 0	0	1.7	, c	· ~	, ,	20	, c	27	2	5	[, 5	52	24	1.8		0	=		
410 018	265		240	. c)	215	0	0	505	0	303	0	306	,	,	200	000		700	2 2 8	840	,	75.6	536	226	233	251	28.	340	-	•
ž	19	, v	4 6	9	,	<u>.</u>	5 1	o	o	m	_	· ~	· ^	•	•	•	ď	٠ ه	° =	: =		<u> </u>	. =	*				ا عاد إ	•	•	
Q.	1.966	0.7.00	. 440	000	7	937.0	931.0	922.0	909.0	896.0	884.0	873.0	862.0	B. F. J. D.			706.0		20.00	733.0	712.0	200	0 - CO 4	672.0	653.0	634.0	6.15.0	200	479.	561.0	•
Total	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			2		-{·	-5.1	-9.0	0.6-	-21.3	2717		25.3	4 4 4	07 (4	0 1	* * * * * * * * * * * * * * * * * * * *	5	1011	76.7	0.21		8 4 1	0.0	-22.	27.72	0.46	24.3	,
();		7.00	• • •	0.0	0.01	21.2	54.6	25.8	25.B	27.0	27.2	27.5	27.5			7000		56.5	7	3 0		200			4 4		4		*	6	33333
14 14 15 17			> F	r c	>	19.5.7 1	0	0	17.6	• •	9	9	2 2		9 4	0 7	10.1	o -	or 0 r	• 6	* *	• 70	20,00	- 0	7 00	· uf	9 0	700		0 4 0 6	082 TPAUSE
1			• 7 /	1332	<0.34	5189	2372	1592	40,	3 r	3046	0000		0 4 0	0074	1455	2010	0000	000	1100	1 1 2 2	CYDOT	41.00	# C 4	20077	1001		74047		10061	

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03/11/80

VERSION NO 45

HAWMSONDE DATA (WBS-1)
STATICH, PNAS MIHAMAR, CALIF.
2312, 02 AUGUST 1979
FOE UP NO NONE
ASSENTING 011
INTERMEDIATE OUTPUT VERSIO

03/11/80	.IF.:				VERSION NO. 45
RAWINSONDE DATA (WBS-1)	STATION, PNAS MIRAMAR, CALIF	1719Z 03 AUGUST 1979	FOR UP NO. NONE	ASCENT NO. 012	INTERMEDIATE OUTPUT

MASON		.71	3.42	5.27	6.32	6.57	6.70	6.14	6.77	6.80	6.83	6.86	6.89	6.91	96.9	66.9	7.04	1.08	7.12	7.15	7.18	7.21	7.23	7.25	7.27	7.29	15.	7.32	
1 HMAd		.71	2.71	1.85	1.06	• 52	• 13	.03	.03	• 03	• 03	.03	• 03	.03	.03	.05	• 05	*0.	•0•	• 03	.03	.03	-02	-05	• 05	-05	20.	10.	
PUING		.028	.107	.073	-045	.010	.005	.001	.001	.001	.001	100	.001	.001	1000	-005	-005	- 005	.001	.001	.001	.00	• 00)	• 00]	.001	.001	.00	.001	
H CH	136	187	386	530	630	686	968	1030	1158	1288	1419	1542	1667	1793	1921	2181	2437	9698	2955	3219	3488	3752	4023	4288	4547	4813	5086	2385	
HIX (G/KG	11.19	12.04	11.17	11.54	7.35	.93	•24	•24	*2*	.23	•23	.23	•25	.22	.21	•20	.19	.17	.16	.15	•13	•12	.11	:	•10	60.	80.	.07	
ZONO	0	.014	-0.017	-0.008	-0.119	-0.23R	-0.019	-0.008	-0.008	-0.00-	-0.007	-00.00	90000-	-0.006	900.0	-0.00-	-0.006	-0.006	-0.006	-0.005	-0.005	-0.005	500.0-	900-0-	-0.005	-0.005	-0.005	-0.005	
t d	_	_	~	•	_	~			36.6	٠.			_	_	٠.		۸.	_	_		ے '	_	٠		•	_	_	_	;
ABS	13.19	14.12	12,81	13.01	8.05	1.02	• 25	•25	.24	•5•	•23	.23	•25	.21	.20	•19	.17	.15	• 7 •	.12	.11	.10	60.	90.	90.	.07	90.	.05	
			0		0		0		0		0		0		0	0	0	0		٩							0		
Z	00	02	20	16	20	22	30	35	04	.	50	55	9	65	2	80	90	100	110	120	130	140	150	160	170	180	190	200	
ā	346	348	337	333	594	251	238	234	231	228	225	222	219	217	214	208	203	198	194	189	184	179	175	170	165	161	157	153	
SPD	0	c	2	٥	2	0	•	0	97	0	9,	0	25	0	2	25	5	22	97	15	92	*	12	o	9.	٥ <u>٠</u>	24	* 2	
DIR	0	0	317	0	37	0	56	0	310	0	305	0	304	0	305	962	962	297	300	300	311	313	319	m	30	34	36	45	
ă	86	16	100	66	45	'n	_	_	_	_	-	_	-	~	-	_	-	-	~	7	~	-	7	~	_	7	_	-	
									885.0			847.0	835.0	823.0	811.0	787.0	764.0	741.0	719.0	697.0	675.0	654.0	633.0	613.0	594.0	575.0	556.0	538.0	
1 0 (c)	15.5	16.6	14.9	15.2	8.3	-18.7	-33.8	-34.0	-34.1	-34.4	-34.6	-34.7	-35.3	-35.8	-36.4	-36.8	-37.8	-38.9	-30.9	-41.1	-42.3	-43.5	6.44-	-45.3	-45.9	-47.2	-48.3	-49.5	
†(c)	15.8	17.0	15.0	15.4	21.8	55.9	26.5	26.2	26.0	25.5	25.3	25.0	24.1	23.2	25.2	51.6	19.8	18.1	16.4	144	12.4	10.5	8.1	7.6	6.5	4.4	2.1		33333
HT DIFF	0	c	828	0	161	0	966	0	998	0	657	0	813	٥	832	853	940	628	843	864	885	966	888	869	850	873	968	_	3908 (PAUSE
H(FT)	445	419	1273	1739	2067	2250	2933	3379	3799	4225	4656	5060	5469	5883	6301	7154	1994	8853	9696	10560	11445	12311	13199	14068	14918	15791	16687		

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03/11/80	

HAMINSONDE DATA (WBS-1)	
STATION, PNAS MIRAMAR CALIF.	CALIF
0513Z 03 AUGUST 1979	
FOR OP, NO, NONE	
ASCENT NO, 013	
THE OTHER PARTY	VEDSION NO AS

10000 1000
18.0 -0.015 10.40 664 .077 1.95 118.3 -0.017 9.78 615 .065 1174 118.3 -0.013 .18 652 .0165 .114 32.8 -0.015 .21 1039 .005 .114 35.3 -0.018 .22 1167 .001 .03 35.3 -0.008 .22 1296 .001 .03 37.2 -0.008 .22 1296 .001 .03 37.2 -0.008 .22 1296 .001 .03 37.2 -0.008 .22 1296 .001 .03 37.5 -0.008 .22 1296 .001 .03 40.1 -0.007 .22 1813 .001 .03 40.5 -0.006 .17 2628 .002 .06 42.6 -0.006 .17 2628 .002 .06 45.5 -0.005 .19 2357 .001 .03 45.5 -0.005 .10 3737 .001 .03 45.5 -0.005 .11 3737 .001 .03 46.5 -0.005 .07 4580 .001 .02 46.6 -0.005 .07 4580 .001 .02 46.6 -0.005 .07 4580 .001 .02 53.1 -0.005 .07 5430 .001 .02
-0.017 9.78 616 .069 1.74 -0.034 9.19 679 .015 .39 -0.037 .18 761 .000 .01 -0.015 .21 1039 .001 .03 -0.008 .22 1296 .001 .03 -0.008 .22 1296 .001 .03 -0.008 .22 1428 .001 .03 -0.006 .22 1296 .001 .03 -0.006 .22 1813 .001 .03 -0.006 .19 252 .002 .06 -0.006 .15 20 202 .06 -0.006 .15 20 202 .06 -0.006 .15 20 202 .002 .06 -0.005 .10 202 .001 .03 -0.005 .10 4059 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02 -0.005 .00 4596 .001 .02
17.6 -0.034 9.19 652 0.015 339 28.8 -0.037 10 10 761 0.00 28.8 -0.015 21 10 761 0.00 35.3 -0.015 21 1039 0.00 35.3 -0.008 22 1196 0.01 0.03 37.9 -0.008 22 1268 0.01 0.03 39.2 -0.008 22 1551 0.01 0.03 40.8 -0.006 22 1551 0.01 0.03 41.8 -0.006 19 2357 0.02 0.06 42.6 -0.006 17 2628 0.02 0.06 45.4 -0.006 18 3181 0.01 0.03 45.5 -0.005 11 3737 0.01 0.03 45.6 -0.005 0.0 4596 0.01 0.03 45.6 -0.005 0.0 4596 0.01 0.03 45.8 -0.005 0.0 4596 0.01 0.03 45.8 -0.005 0.0 4596 0.01 0.03 45.9 -0.005 0.0 4596 0.01 0.03 45.9 -0.005 0.0 4596 0.01 0.03 45.9 -0.005 0.0 4596 0.01 0.03 45.7 -0.005 0.0 4596 0.01 0.03
28.8 -0.015
34.0 -0.015 .21 1039 .002 .04 35.3 -0.008 .22 1167 .001 .03 37.9 -0.008 .22 1596 .001 .03 39.2 -0.008 .22 1596 .001 .03 39.2 -0.008 .22 1596 .001 .03 40.8 -0.006 .22 1592 .001 .03 41.8 -0.006 .19 2357 .002 .05 42.6 -0.006 .19 2357 .002 .05 44.5 -0.006 .17 2628 .002 .06 45.4 -0.005 .13 3462 .001 .03 45.5 -0.005 .13 3462 .001 .03 45.5 -0.005 .11 3737 .001 .03 45.6 -0.005 .08 4296 .001 .02 51.8 -0.005 .07 5489 .001 .02 53.1 -0.005 .07 5489 .001 .02
34.0 -0.008 .21 1039 .002 .003 35.3 -0.008 .22 1167 .001 .03 37.9 -0.008 .22 1268 .001 .03 39.2 -0.008 .22 1268 .001 .03 39.2 -0.008 .22 1428 .001 .03 40.1 -0.007 .22 1865 .001 .03 40.6 -0.006 .19 2357 .002 .05 43.6 -0.006 .19 2357 .002 .05 43.6 -0.006 .19 2357 .002 .05 45.4 -0.005 .13 3462 .001 .03 45.5 -0.005 .13 3462 .001 .03 45.5 -0.005 .11 3737 .001 .03 45.6 -0.005 .08 4596 .001 .02 46.6 -0.005 .07 459 .001 .02 5331 -0.005 .07 5432 .001 .01 55.7 -0.005 .07 5432 .001 .01 55.7 -0.005 .07 5432 .001 .01 .01
35.3 -0.008 .22 1167 .001 .03 36.6 -0.008 .22 1296 .001 .03 39.2 -0.008 .23 1551 .001 .03 40.1 -0.007 .22 1813 .001 .03 40.6 -0.006 .22 1813 .001 .03 42.6 -0.006 .19 2357 .002 .05 43.6 -0.006 .17 2628 .002 .05 45.4 -0.006 .17 2628 .002 .05 45.5 -0.005 .13 3462 .001 .03 45.7 -0.005 .11 3737 .001 .03 45.7 -0.005 .07 4859 .001 .02 51.8 -0.005 .07 4859 .001 .02 53.1 -0.005 .07 5458 .001 .01 55.7 -0.005 .07 5458 .001 .01
36.6 -0.008 .22 1296 .001 .03 37.9 -0.008 .22 1428 .001 .03 40.1 -0.007 .22 1581 .001 .03 41.8 -0.006 .22 1813 .001 .03 42.6 -0.006 .19 2327 .002 .06 45.6 -0.006 .15 2907 .002 .06 45.6 -0.006 .15 2907 .002 .06 45.6 -0.005 .11 3737 .001 .03 45.7 -0.005 .01 4590 .001 .02 46.6 -0.005 .01 4590 .001 .02 46.6 -0.005 .01 4590 .001 .02 53.1 -0.005 .07 5489 .001 .02 53.1 -0.005 .07 5489 .001 .02
37.9 -0.008 .22 1428 .001 .03 40.6 -0.008 .22 1551 .001 .03 41.8 -0.006 .22 2092 .002 .06 42.6 -0.006 .17 2628 .002 .06 45.4 -0.006 .17 2628 .002 .06 45.4 -0.006 .15 3181 .001 .03 45.5 -0.005 .13 3462 .001 .03 45.5 -0.005 .10 4020 .001 .03 46.6 -0.005 .08 4296 .001 .02 46.6 -0.005 .08 4296 .001 .02 46.6 -0.005 .08 4296 .001 .02 46.6 -0.005 .07 4859 .001 .02 46.6 -0.005 .07 4859 .001 .02
39.2 -0.008 .23 1551 .001 .03 40.6 -0.006 .22 1686 .001 .03 41.8 -0.006 .19 2357 .002 .05 43.6 -0.006 .17 2628 .002 .05 45.4 -0.005 .15 3181 .001 .03 45.5 -0.005 .13 3462 .001 .03 45.5 -0.005 .11 3737 .001 .03 45.6 -0.005 .08 4296 .001 .02 46.6 -0.005 .08 4296 .001 .02 51.8 -0.005 .07 4859 .001 .02 53.1 -0.005 .07 5482 .001 .02 55.7 -0.005 .07 5482 .001 .02
40.1 -0.007 .22 1813 .001 .03 40.6 -0.006 .22 1813 .001 .03 42.6 -0.006 .19 2357 .002 .05 43.6 -0.006 .17 2628 .002 .04 45.5 -0.006 .13 3462 .001 .03 45.7 -0.005 .11 3737 .001 .03 45.7 -0.005 .01 4020 .001 .02 46.6 -0.005 .01 4020 .001 .02 46.6 -0.005 .01 4020 .001 .02 46.6 -0.005 .07 4859 .001 .02 53.1 -0.005 .07 4859 .001 .02 53.1 -0.005 .07 5450 .001 .02
40.6 -0.006 .22 2092 .002 .06 43.6 -0.006 .20 2092 .002 .005 43.6 -0.006 .17 2628 .002 .005 .005 43.6 -0.006 .16 2907 .002 .004 45.4 -0.006 .16 2907 .002 .004 45.5 -0.005 .11 37.2 .001 .003 45.5 -0.005 .11 37.2 .001 .002 46.6 -0.005 .00 42.9 6 .001 .002 46.6 -0.005 .00 42.9 6 .001 .002 53.1 -0.005 .00 48.9 .001 .02 53.5 -0.005 .07 54.8 .001 .01 55.7 -0.005 .07 54.8 .001 .01
41.8 -0.006 .20 2092 .002 .005 42.6 -0.006 .17 2628 .002 .005 .05 44.5 -0.006 .19 2628 .002 .004 44.5 -0.006 .16 2907 .002 .004 45.4 -0.005 .11 314.2 .001 .003 45.5 -0.005 .11 37.7 .001 .003 45.5 -0.005 .10 4020 .001 .002 46.6 -0.005 .00 4296 .001 .002 46.6 -0.005 .00 4296 .001 .002 55.1 -0.005 .00 51.8 .001 .002 55.7 -0.005 .07 5432 .001 .01 55.7 -0.005 .07 5432 .001 .01
0 17 426 -0.006 19 2357 002 05 16 43.6 -0.006 17 2628 002 04 0 12 45.4 -0.006 15 3181 001 03 10 45.5 -0.005 13 3462 001 03 09 45.5 -0.005 11 3737 001 03 06 46.5 -0.005 08 4296 001 02 0 06 46.6 -0.005 08 4296 001 02 0 06 53.1 -0.005 07 4589 001 02 0 06 53.1 -0.005 07 5708 001 01
0 16 43.6 -0.006 17 2628 .002 .04 0 12 45.4 -0.006 .15 2907 .002 .04 0 10 45.5 -0.005 .13 3462 .001 .03 0 45.5 -0.005 .11 3737 .001 .03 0 45.7 -0.005 .11 3737 .001 .03 0 65.8 -0.005 .08 4296 .001 .02 0 .06 46.6 -0.005 .07 4580 .001 .02 0 .06 53.1 -0.005 .07 4580 .001 .02 0 .06 53.1 -0.005 .07 5708 .001 .01
44.5 -0.006 .16 2907 .002 .04 45.4 -0.005 .13 3462 .001 .03 45.5 -0.005 .13 3452 .001 .03 45.7 -0.005 .10 4020 .001 .02 46.6 -0.005 .00 4296 .001 .02 51.8 -0.007 .09 4859 .001 .02 53.1 -0.005 .07 5432 .001 .02 55.5 -0.005 .07 5432 .001 .01
0 45.4 -0.006 15 3181 .000 .04 10 45.4 -0.005 .13 3462 .001 .03 0.06 45.7 -0.005 .10 4020 .001 .02 0.06 46.6 -0.005 .07 4580 .001 .02 0.06 46.6 -0.005 .07 4580 .001 .02 0.06 53.1 -0.005 .07 5482 .001 .02 0.05 53.1 -0.005 .07 5432 .001 .01
0.06 45.5 -0.005 .13 3462 .001 .03 0.09 45.5 -0.005 .11 3737 .001 .03 0.06 46.6 -0.005 .08 4296 .001 .02 0.06 46.6 -0.005 .07 4580 .001 .02 0.06 51.8 -0.007 .09 4859 .001 .02 0.05 53.1 -0.005 .07 5149 .001 .02 0.05 55.7 -0.005 .07 5708 .001 .01
0 45.5 -0.005 .11 3737 .001 .03 0 6.6 46.6 -0.005 .00 45296 .001 .02 0 .06 46.6 -0.005 .07 4580 .001 .02 0 .06 51.8 -0.007 .09 4859 .001 .02 0 53.1 -0.005 .07 5708 .001 .01
08 45.7 -0.005 .10 4020 .001 .02 0 .06 46.6 -0.005 .08 4296 .001 .02 0 .06 51.8 -0.007 .09 4859 .001 .02 06 53.8 -0.005 .07 5432 .001 .02 06 53.5 -0.005 .07 5432 .001 .01
06 46.2 -0.005 .08 4296 .001 .02 0 .06 46.6 -0.005 .07 4580 .001 .02 -0 .06 53.8 -0.007 .09 4859 .001 .02 05 53.8 -0.005 .07 5432 .001 .01 06 55.7 -0.005 .07 5708 .001 .01
0 .06 46.6 -0.005 .07 4580 .001 .02
006 51.8 -0.00709 4859010206 53.1 -0.00508 5149010205 54.5 -0.00507 57.08010101
.06 53.1 -0.005 .08 5149 .001 .02 .05 54.5 -0.005 .07 5432 .001 .01 .01 .04 55.7 -0.005 .07 57.08 .001 .01
.05 54.5 -0.005 .07 5432 .001 .01
.04 55.7 -0.005 .07 5708 .001 .01

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HAW NSONDE DATA (WBS-1) STATION, PNAS MIRAMAR, CALIF

FUR DE NO NONE ASCENTINO 014

VERSION NO. 45

INTERMEDIATE OUTPUT

13.9 10.0 PAUSE 290 1512 2314 2314 2496 2496 2496 4585 4585 4585 4585 11062 11062 11062 11062 11062 11062 11062 11062 11062

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03/11/80

RAWINSONDE DATA (WBS-1)
STATION, PNAS WIRAMAR, CALIF.
2316Z 03 AUGUST 1979
FOR OP NO NONE
ASCENT NO 015
INTERMEDIATE OUTPUT VERSION NO. 45

PWSUM		1.43	2.76	4.16	5.43	6.00	6.62	6.83	7.13	7,43	7.70	7.96	8.22	8.50	9.00	9.48	96.6	10.49	11.00	11,43	11:4	12.07	12,33	12.59	12,85	13.17	13,37	13.55	13.92	
3		1.43	1.33	1.40	1.28	.56	.62	.21	• 30	•5•	. 2 B	•56	•5	.28	•50	. 48	.50	.51	.51	• 43	.34	٥.	.26	•56	•\$.33	.20		.21	
N		• 056	.052	• 055	•050	• 055	. 425	.008	.012	• 012	.01	.010	.010	,011	020	•10•	.020	• 050	020	.017	.014	.012	-010-	.010	010	.013	.008	-00-	.010	
I (S	136	257	373	\$ 68	919	671	773	828	983	1110	1230	1340	1452	1576	1806	2042	2283	2519	2759	2993	3231	3475	3725	3985	4232	4487	4610	4735	6864	
1 X (6/K)	0.11	0.24	98.6	9.80	9.56	8.96	2.25	2,33	2.22	2.25	2,28	2,31	2.34	2.30	2.17	2.11	2.34	2.44	2.36	1.85	1.54	1,35	1.26	1.26	1.43	1.95	2.33	1.63	1.28	
M ZONO	-0	0.004 1	.011	100	.010	.042	• 156	600	.011	900	.008	900	000	900	-007	1.007	\$000	500.	900	600	.001	.007	900	-005	.005	- 005	0	.013	- 00 -	
, Ld		١												-																
			11.17		;					2,39							1		2.14			_		_	_	ام	1.73	_	_	
₹	~	-		-	7 0	•								9			0	•	•	0			1						1	
Z	00	20	0.	15	50	23	27	30	35	0	4 5	20	55	9	70	80	6	100	110	120	130	140	150	160	170	180	185	190	200	
۵ 1	328	326	325	319	315	308	256	253	549	245	245	239	236	233	822	222	219	215	210	203	197	191	186	182	178	176	177	171	165	
SPD	Œ	0	e	0	~	0	0	*	0	~	0	~	0	9	10	15	16	11	19	21	12	٥	~	σ	61	21	0	25	18	
018	235	0	274	0	306	0	0	160	0	194	0	300	0	310	303	313	568	862	962	294	291	277	281	238	213	203	0	191	186	
ĭ	55	62	99	70	1.	99	1	11	2	10	01	20	10	10	2	0	12	*	15	13	75	11	=======================================	12	15	23	30	25	61	
D (MF)	995.8	982.0	969.0	955.0	942.0	936.0	925.0	916.0	903.0	890.0	878.0	867.0	856.0	844.0	822.0	800.0	778.0	757.0	736.0	716.0	696.0	676.0	656.0	636.0	617.0	598.0	589.0	580.0	562.0	
TD (C)	14.0	13.8	13.1	12.9	12.4	11.1	6.1-	-7.4	-8.2	-8.2	-8.5	-8.2	-8.2	-8.5	-9.5	-10.1	-6-	-9.5	-10.0	-13.8	-16.1	-17.9	-18.9	-19.5	-18.8	-15.4	-13.3	-17.6	-21.0	
1(0)	23.5	21.5	19.7	18.4	16.9	17.6	24.0	24.7	25.5	25.2	25.2	25.2	25.2	24.7	23.3	22.4	20.6	18.4	16.3	14.3	12.3	11.2	6.7	8.0	6.1	•	5.5	1.7	-0.7	33333)
H DIFF		0	178	0	161	3	0	196	0	827	0	153	•	773	756	174	192	112	789	766	782	803	821	841	950	839	0	813	. 832	062 (PAUSE
Ī	445	00	1223	1635	2020	2200	2535	2816	3226	3643	4034	4396	4763	5169	5925	6699	1491	8263	9052	9818	10600	11401	12222	13063	13883	14722	15126	15535	16367	₹ ₩

	Ü		Ö	ò	÷	ç	÷	•
	pt 0	15.4	15.9	16.8	22.0	25.4	27.7	6
	ABS	12.86	12.59	11.98	12,36	12.14	11.05	77 0
	21	00	03	10 0	15	17	20	(
_	ă	345	341	332	326	320	310	,,,,
303:	SPD	e	0		0	0	~	•
03/11/80	910	320	0	339	0	0	7.0	•
- /50	ă	100	100	100	85	69	2,4	;
NO. 45	(HH) d	6.566	986.0	965.0	0.646	943.0	934.0	
ALIF. VERSION NO. 45	10(C)	15.0	14.6	13,8	14.6	14.4	33.1	
A (WBS-1) AMAR, C 379 TPUT	<u>ر</u> •	5.5.	14.7	13.9	17.6	20.5	21.8	
NDE DATA PNAS MIR NUGUST 18 O. NONE O. 016	1 DIFF	0	0	878	0	0	920	1
RAWINSONDE DATA (WBS-1) STATION, PNAS MIRAMAR, CALIF. 06502 04 AUGUST 1979 FOR OP, NO, NONE ASCENT NO, 016 INTERMEDIATE OUTPUT VER	I (TRI	445	124	1323	1790	1970	2243	1

I	I (1)	HI DIFF	٥	(C)	(HH) a	ī	ď	SPD	~	Z	ABS	r D	ZONO		Ï	N. I. M. O.	N TO A	PWSUM
•	145	0	.5.1	15.0	6.566	100	320	~	345	00	12.86	5 15.4	J	10.01	136		•	
_	124	0	14.7	14.6	986.0	100	0	0	341	03	12.5	15.9	-0.034		221	.043	1.09	1.09
	323	878	13.9	13.8	965.0	100	339	1	332	10	11.9	3 16.8	-0.0]		E03	680	5.26	3.34
	190	0	17.6	14.6	0.646	85	0	0	326	15	12,36	5 22.0	-0.01		546	690•	1.7.	5.09
51	170	0	20.5	14.4	943.0	69	0	0	320	17	12.1	1 25.4	-0.034		909	• 050	.67	5.76
25	*	920	21.8	13.1	934.0	23	7.0	~	310	20	11.05	5 27.7	-0.03		684	•038	96.	5.72
~	127	0	22.1	11.0	928.0	20	0	0	300	22	9.6	5 28.5	-0.054		40	.023	.58	7.30
2)	90,	0	54.9	-9.5	0.616	2	0	0	252	25	2.2	32.2	-0.172		928	• 050	.5	7.82
3	90	937	25.9	-8.5	904.0	01	263	2	248	30	2.36	34.7	-0.009		696	•013	•34	8.15
36	3629	0	25.9	-8.5	890.0	10	0	0	244	35	2.3	36.0	-0.00		90	•013	•33	8.49
40	186	906	25.7	1.8.	876.0	10	594	ø	241	04	2.2	37.2	-0.00E		245	.013	•33	8.82
4	4517	, 0	25.7	-8.7	863.0	10	0	0	237	đ đ	2,2,5	38.5	-0.00		377	.012	.31	9.13
	1953	867	24.9	-6.3	850.0	12	291	o	237	20	2.7	39.1	_		510	.013	•34	4.4
-	130	a	24.2	-3.8	836.0	15	o	o	238	55	3,3	39.8	.001		655	.017	**	9.91
18	378	925	22.5	-1.1	823.0	20	290	15	239	09	3.94	39.5	.00		792	.020	ŝ	10.61
	6826	946	20.5	-3.0	196.0	7	283	15	232	02	3.6	1 40.0	-0.00€		081	**0.	1.11	11.52
7	762	936	17.6	7.4-	770.0	21	283	15	524	80	3.2	40.2	-0.00		366	• 038	.97	12.49
98	946	884	14.7	-5.1	746.0	54	283	*	518	06	3.0(39.8	-0.00		635	.033	.83	13.32
9.0	9588	246	11.9	-5.3	721.0	62	277	15	215	100	3.16	39.8	-0.004		922	•034	. 8·	14.19
9.1	179	d	1145	-5.4	716.0	8	0	0	214	102	3.1	0.04	-0.00		981	-007	•19	14.37
305	517	626	\$1.3	-14.9	697.0	*	566	10	199	110	1.46	5 42.2	-0.020		506	.020	.51	14.87
113	104	677	9.6	-17.2	675.0	13	201	σ	192	120	1.2	43.4	-0.00		£ 73	+00	35	15.22
122	295	901	8.1	-17.3	653.0	1.	221	13	188	130	7.5	9.44	-0.00		48	.013	•35	15.55
132	25	927	6.5	-16.4	631.0	13	210	12	181	140	6.	45.B	-0.00		030	-015	• 30	15,85
=	30	906	4.2	-17.5	610.0	6	197	13	178	150	1.2(46.3	-00.00		307	-015	.30	16.15
150	118	688	147	-14.4	590.0	5	181	91	176	160	1.5	3.46.4	-0.005		577	•015	•38	16.53
158	182	864	8.0-	-14.9	571.0	33	166	21	172	170	1.5	3 46.5	-0.00			910.	7	16.93
167	16719	837	-3.7	-15.4	553.0	39	150	23	169	180	1.46	3 46.1	-0.00		960	• 0 1 5	98	17.33
113	176	857	-5.8	-15.4	535.0	9	148	52	165	190	1.4	46.5	-0.004		357	015	8	17.69
185	*0	976	-8.5	-16.1	516.0	\$	142	27	161	200	7.4.4	3 46.6	-0.00		640	•016	7	18.10
4	TN 062	S (PAUS	E 333331															

03/11/80					0.45
=	CALIF				VERSION NO. 45
RAWINSONDE DATA (WBS-1)	STATION, PNAS MIRAMAR, CALIF.	1120Z 04 AUGUST 1979	FOR OP, NO, NONE	ASCENT NO. 017	INTERMEDIATE OUTPUT

1313:15

PWSUM		2.13	2.70	4.08	4.81	5.30	5.69	5.71	5.73	5.17	5.80	5.83	5.86	5.91	6.01	62.9	6.62	96.9	7.21	7.26	7.29	7.30	7.32	7.47	7.74	8.03	8.32	8.64	9.12	44.6	9.57	9.64	
DEMM	ı	2.13	•57	1.38	*	64.	•39	• 05	-05	•03	• 03	•03	•03	• 0 5	•10	6 2•	.33	• 36	• 55	• 0 5	•03	.01	.01	.15	•58	.28	.29	•35	8	-35	•13	.0	
NIMA (•	•084	• 025	•054	• 050	• 10 •	•015	.001	.001	.001	.001	.001	.001	• 002	•00•	.011	. 013	•10.	•000	• 005	.001	.001	.00	•000	.01	.01	-015	.013	•010	-012	.005	.003	
ဖ																					F										5159	ì	i
41 X (G/K	11.57	10.77	11.56	11.02	9.73	44.6	•19	.22	.23	•25	•26	92.	•26	64.	1.16	1.25	1.47	1.63	.30	* :	.13	.13	.12	1.26	1.36	1.43	1.47	1.85	3.13	3.11	1.83	1.91	
DNDZ	0	0.019	•015	0.036					•													900.0-				_		-0.002		_		0.003	
PT	16.4	16.5	18.0	- 4.52																												+6.2 -	
ABS	13.65	12.52	13.31	12.36	10.77	10.46	.21	•2•	*2*	•26	.27	• 56	•26	. 38	1.23	1.20	1.44	1.58	•26	.12	.11	=	07	1.02	1:11	1.11	1.12	1.38	2.25	2.23	1,32	1.36	
			0		i						0		0	ĺ	0	0	Ö	0	0	0					0			0					
Z	0	90	0.	15	18	20	23	27	30	35	0	ē.	50	55	9	20	8	9	100	110	120	125	130	140	150	160	170	180	190	195	198	200	
R	348	338	340	328	314	311	247	243	24.1	236	232	558	526	225	227	223	220	216	204	198	193	190	188	188	184	181	177	175	177	174	167	167	
SPD	~	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0		0	0	0	0	0	•	0	0	a	0	0	- a	0	0	0	
DIR	320	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	
ĭ	100	100	100	16	59	57	-	7	_	-		_	-	2	ı.	•	æ	10	~	-	_	-	_	11	13	16	6.	28	57	50	35	36	
P (#8)	995.8	977.0	972.0	960.0	953.0	948.0	0.046	930.0	922.0	908.0	895.0	882.0	870.0	858.0	846.0	823.0	799.0	176.0	753.0	730.0	708.0	697.0	686.0	665.0	644.0	624.0	604.0	585.0	566.0	556.0	551.0	547.0	ı
10 (C)	15.9	14.5	15.5	14.6	12.6	12.2	-35.5	-34,3	-34.2	-33.4	-33.1	-33.3	-33.4	-29.6	-16.4	-16.8	-14.7	-13.7	-33.7	-41,2	-42.1	-45.3	-42.8	-19.2	-18.4	-18.5	-18.4	-16.1	-10.2	-10.4	-16.8	-16,5	
1(0)	16.0	14.6	15.6	19.0	21.0	21.0	23.7	25.7	55.9	27.1	27.6	27.4	27.1	25.9	54.9	55.6	20.1	17.7	15.8	14.2	12.8	12.4	11.6	6.6	8.1	514	2.8	•	-2.8.	-3.6	-3.8	*	33333
HT DIFF	0	•	676	0	0	106	0	0	197	0	859	0	618	0	908	788	840	822	840	961	8	0	968	851	872	852	870	847	998	0	0	999	062 (PAUSE
H(FT)	445	977	1121	1470	1678	1827	2069	2376	2624	3066	3483	3906	4302	A703	5108	5896	- 6736	7558	8388	9259	10103	10534	10971	11822	12694	13546	14416	15263	16129	16593	16828	17917	

2 . 64	W COP DATA (WBS-1)	TA WBS-1	1.5		03/1	03/11/80	1314.44	14									
	TATEST PLAS WIRAWAR, CAL	1979	CALIF														
	NIEHWELLATE OUTPUT	UTPUT	VERSION	ERSION NO. 45													
i i	#1 01 FF	(3)1	10 (C)	(8M) a	£	910	SP	ŭ	Z	¥	. 58		ZONO	HIX (G/KG)	51 H(M)		wand Nind
544		21.0	14.5	997.6	99	270	m	334	8		2,15	21.2	0	10.41	1 36		
864	. 6	19.7	15.6	983.0	11	0	٠,	337	0.5	7	13.12		.008	11.39	563	.064	1.62
0.221	825	18.2	15.3	0.696	83	282	•	334	2	0	2.84	20.8	0.008	11.34	387	.064	1.62
7 S B 2	0	16.8	15,1	0.646	6	0	0	330	11	::	2.81	21.1	-0.007	11.50	566	.091	2.32
1916	•	17.0	13.7	947.0	16	0	0	325	18	-	1.68	21.5	-0.126	10.49	584	600	ر ا
2096	826	23.9	61-	941.0	6.	230	С	569	20	•	40.4	29.1	-0.295	3,75	639	.017	7
2188	•	26.2	-10.8	938.0	œ	0	0	254	2		1.94	31.8 -	-0.162	1.81	199	.003	9
2529	•	28.4	-32.7	927.0	~	0	0	240	25		.28	35.0 -	-0.043	•26	17.	.005	. 12
11.60	875	27.7	-33.1	913.0	~	142	7	237	30	0	.27		-0.00	.25	906	100	
3417	0	27.0	-33.6	899.0	_	0	0	234	38		•56	36.2 •	-0.001	52.	1041	100.	40.
181	900	27.7	-33.1	885.0		12	N.	230	•	0	.27	38.4	600-0-	•26	1180	.001	40.
4333	,	27.0	-20.4	871.0	(m	0	0	530	4.5		.87	39.0	1000	. 16	1351	.003	0.
A P 0 G	626	26.5	-17.9	857.0	•	318	* I	528	25	0	1.08		+00.0-	10.1	1463	• 005	
5241		25.0	+**-	844.0	14	0	0	238	55		3.20		220.	3,29	1597	.011	. 20
5686	980	23.9	6.4-	831.0	5	329	12	236	9		3.25	- 0.04	-0.005	3,35	1733	.017	***
659	900	21.9	9-9-	805.0	*	312	12	227	40		2,70	- 1.04	-0.009	2.86	2010	• 032	•92
7410	823	20.5	-19.8	782.0	e n	311	14	212	90	0	*	- 6.14	-0.019	96.	2260	.018	.45
952W	818	17.8	-18.1	758.0	^	301	13	509	06	0	1.09	41.8 -	+00.0-	1.17	2528	.010	• 26
616	168	15.0	-18.7	734.0	o	308	11	504	100	0	1.10	41.6 -	-0.005	1.30	2801	•015	.30
10072	881	12.6	-18.6	711.0	3	309	13	199	110	0	90.	41.9	-0.005	1.28	3070	.012	.30
10974	905	10.9	-23.8	688.0	•	293	15	192	120			43.0 -	-0.008	.83	3345	.010	.25
11862	868	0.6	-21.5	666.0	•	275	91	188	130			- 2.44	900.0	1.02	3616	•00•	2.
12:76		8.2	-17.7	644.0	*T	229	91	185	140	0	_	45.9	-0.003	1.47	3894	110	. 20
13714	916	5.6	-10.5	622.0	30	218	17	186	150		2.14	-	.002	2.74	0917	010.	
14678		6.6	-10.1	600.0	38	206	18	183	160	. •	2.23	46.3 -	0.004	5.98	4474	.025	•
15080	0	6.1	-10.4	591.0	0	0	0	190	164		2.18	46.5	-0.005	5.96	4596	-01	.27
15023	915	4.	-14.7	579.0	30	185	11	114	170		1.55		210.0-	2.08	4762	-612	
16083	6	-0-	-20.3	569.0	2	0	•	168	175		86.	47.3	0.012	1.37	4902	-000	.17
15549	626	-1-3	-51.5	559.0	29	161	. 22	165	180		06.	47.8	900-0-	1.24	2044	500	
17451	903		-21.3	540.0	* 2	163	54	161	190		68	48.4	-0.005	1.31	5319	.010	.25
16328	677	-6.1	-22.9	\$22.0	52	158	28	151	200		• 78	48.5	0.005	1,16	8586	•000	• 23

03/11/80 1315.19

VERSION NO. 45

RAWINSONDE DATA (WBS-1)
STATION, PNAS MIRAMAR, CALIE.
00012-05 AUGUST 1979
FOR OP NO NONE
ASSENT YO. 019
INTERMEDIATE OUTPUT VERSION

69 275 6 335 00 12.45 28.4 -0.002 11.32 136 16.5<	• • •	995.6 60
0 0 0 331 05 12.43 22.4 -0.008 10.94 265 9.05 1.65 1.65 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.0	000	
0 0 331 07 12-51 22-3 -0.002 11:07 318 0.26 .67 0 0 0 321 10 11:46 25:1 -0.0424 10:54 396 .039 .99 0 0 270 13 11 11:46 25:1 -0.046 3:02 470 .013 .33 0 0 270 13 11 11:46 2:1 -0.346 3:02 470 .013 .33 0 0 269 18 3.60 24.8 -0.003 3.54 599 .013 .35 311 5 264 20 3.40 30.9 -0.027 2.54 767 .015 .37 312 0 252 40 0 3.99 38.2 .007 2.94 767 .015 .37 323 13 6 252 40 0 3.99 38.2 .007 2.94 102 .014 .35 324 11 2.38 60 0 4.86 39.3 -0.001 4.95 111 .046 1.17 325 12 2.22 70 0 2.33 41.6 -0.003 2.96 141 .046 1.17 336 13 22 22 80 0 2.33 41.6 -0.003 2.96 2.013 .35 337 10 0 2.52 80 0 2.33 41.6 -0.003 2.96 2.013 .35 338 13 22 22 27 90 0 2.23 41.8 -0.004 2.91 3192 .017 .44 339 16 206 110 0 2.52 41.8 -0.006 2.01 3.99 .019 .48 330 16 206 110 0 2.02 41.8 -0.006 2.01 3.99 .019 .48 331 11 18 18 15 0 0 1.76 42.8 -0.006 2.01 3.96 .015 .38 225 7 185 160 2.03 41.8 -0.006 2.01 3.99 .019 .48 226 6 6 183 180 1.30 1.37 45.9 -0.006 2.02 3.94 .015 .38 227 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01	69
319 7 325 10 11.85 23.1 -0.024 10.16 425 013	•	72
0 0 251 11 11.50 24.0 -0.040 10.16 425 012 32 0 0 269 13 3.29 24.0 -0.023 3.54 599 0.18 47 313 6 253 25 2.58 34.6 -0.027 2.54 767 0.15 37 313 6 250 30 0 2.64 36.4 -0.003 2.99 892 0.13 32 314 10 252 40 3.99 38.2 -0.003 2.99 1411 0.046 1.17 323 13 222 40 3.99 38.2 -0.003 2.99 1411 0.046 1.17 324 11 251 50 0 4.86 39.3 -0.001 4.95 1411 0.046 1.17 325 12 222 80 0 2.59 41.2 -0.003 2.93 1411 0.046 1.17 336 13 22 217 90 0 2.23 41.6 -0.005 2.09 2083 0.19 4.8 337 16 200 11.0 0 2.23 41.6 -0.005 2.09 2083 0.19 4.8 338 13 10 2.02 42.1 -0.007 2.19 2688 0.21 5.4 314 194 130 1.37 42.2 -0.006 2.09 346 0.18 3.8 32 18 190 2.09 46.5 -0.001 2.09 346 0.15 3.8 310 10 10 2.09 40.5 -0.003 2.73 4029 0.10 4.95 111 0.10 4.78 6.25 6.10 6.10 6.10 6.10 6.10 6.10 6.10 6.10	_	99
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5 264 20 3.40 30.0 -0.028 3.09 645 .007 .17 .17 .015 .37 .16 .015 .37 .16 .015 .37 .16 .015 .37 .17 .015 .37 .17 .015 .37 .32 .32 .32 .32 .32 .32 .32 .33 .16 .010 .23 .16 .015 .37 .17 .016 .32 .32 .17 .32 .32 .11 .32 .33 .16 .000 .39 .11 .000 .39 .11 .10 .000 .32 .11 .10 .11 .00 .10 .40 .11 .00 .00 .10	0	8 2
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14 194 130 1.37 43.3 =0.006 1.59 346 .015 .38 12 189 140 1.81 45.5 =0.006 1.70 3101 .916 .93 7 185 160 2.90 46.0 =0.001 2.32 4224 .026 .916 6 183 170 0 2.31 46.2 =0.003 3.10 4478 .022 .56 10 183 186 2.80 46.5 =0.001 3.80 4739 .026 .67 15 178 190 2.28 47.4 =0.015 3.78 4992 .013 .42 16 171 200 2.28 47.4 =0.019 3.18 50.9 .006 .46 16 171 200 2.28 47.4 =0.019 3.18 50.9 .006 .46	14 201	9
12 189 140 1.38 45.5 -0.006 1.70 3707 014 35 9 186 150 0 1.81 45.9 -0.002 2.32 3963 016 41 6 183 170 0 2.31 46.2 -0.003 3.10 4478 022 56 10 182 180 2.80 46.5 -0.001 3.80 478 022 56 0 183 186 2.80 46.5 -0.001 3.80 473 026 67 15 178 190 2.28 47.1 -0.015 3.78 4879 017 42 16 171 200 2.28 47.1 -0.019 3.18 5049 016 .46	14 194	•
9 188 150 0 1.81 45.9 -0.002 2.32 3963 .016 .41 1 185 160 2.09 46.2 -0.001 3.10 478 .022 .51 10 182 180 2.69 46.5 -0.001 3.80 478 .026 .67 0 183 186 3.30 46.6 .002 4.53 4879 .017 .42 15 178 190 2.69 47.1 -0.015 3.78 4992 .013 .34 16 171 2.09 48.1 -0.015 3.27 5251 .018 .46	12 189	ĸ.
7 185 160 2.09 46.0 -0.003 2.73 4224 .020 .51 6 183 170 0 2.31 46.2 -0.003 3.10 4478 .022 .56 10 183 186 2.80 46.5 -0.001 3.80 4739 .026 .67 15 178 190 2.89 47.1 -0.015 3.78 4992 .017 .42 16 171 2.00 2.28 47.4 -0.019 3.18 5049 .016 .14 16 171 2.00 2.28 48.1 -0.005 3.27 5251 .018 .46	9 188	Ģ.
6 183 170 0 2-31 46.2 -0.003 3-10 4478 .022 .56 10 183 186 2.80 46.5 -0.001 3.80 4739 .026 .67 0 183 186 3.30 46.6 .002 4.53 4879 .017 .42 15 178 190 2.28 47.4 -0.015 3.18 50.9 .016 .14 16 171 2.00 2.28 48.1 -0.005 3.27 5251 .018 .46	7 185	=
10 182 180 2.80 46.5 -0.001 3.80 4739 026 67 0 183 186 3.30 46.6 .002 4.53 4879 017 62 15 178 190 2.28 47.4 -0.019 3.18 5049 016 3.4 16 171 200 2.28 47.4 -0.019 3.18 5049 0106 .14	6 183	0
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15 178 190 2.69 47.1 -0.015 3.78 4992 .013 .34 0 174 193 2.28 47.4 -0.019 3.18 5049 .006 .14 16 171 200 2.28 48.1 -0.005 3.27 5251 .018 .46	0 183	~
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16 171 200 2.28 48.1 -0.005 3.27 5251 .018 .46	174	53
	16 171	69

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VERSION NO. 45 RAWINSONDE DATA (WBS-1)
STATION, PNAS MIRAMAR, CALIF.
0510Z 05 AUGUST 1979
FOR OP. NO. NONE
ASCENT NO. 020
INT. RMEDIATE OUTPUT VERSIC

i	HT DIFF	100	To (c)	P (MB)	£	D1R	300	ä	Z	ABS		DNO	WIX (6/1	(G) H(M)	MIM	PRHIM	PWSUM
445	•	17.8	17.4	997.2	96	215	~	353	00	14.8	18.	0	12.72	136			
678	0	17.5	17.4	989.0	100	0	0	352	03	14.9	18.	5 -0.005	12.84	207	• 042	1.06	1.06
;	•	17.1	17.0	979.0	100	0	0	348	20		18.	9 -0.015	12.64	762	150	1.29	2.36
1195	7.50	17.8	17.4	971.0	96	255	•	346	10	0 14.7	20.	2 -0.007	13.07	364	.041	1.04	3.40
1961	a	10.6	16.8	966.0	88	0	0	340	12	14.1	21.	7 -0.042	12,55	604	.026	• 65	4.05
1577	0	20.1		958.0	99	0	0	323	15	11.9	23	7 -0.072	10.57	461	.037	. 46.	66.
1936	747	23.0	2.0	946.0	52	166	សា	278	20	0 5.1	27.	8 -0.127	4.65	290	• 037	.93	5.92
1117	4	26.4	-9.7	933.0	•	0	a	254	52	2.1	32.	4 -0.060	2.07	711	.017	**	6.37
2707	171	27.8	-33.0	921.0	_	328	o	539	2	0	35.	0-0-0-0	.25	828	900	1	6.5
3007	•	27.3	-33.3	90606	_	•	0	236	35		35.	7 -0.007	.25	941	.001	.03	6.54
1563	196	2616	190	896.0	•	321	12	238	•	0 1.0	36.	*00. *	96.	1068	.003	80.	6.62
3892	•	25.4	9.0-	984.0	8	0	0	254	\$	1.4	36.	1 - 041	4.14	1186	-012	- -	6.93
4286	783	25.4	'n	872.0	20	311	16	253	50	9.4	37.	3 -0.002	4.66	1306	• 021	.54	7.47
5695	769	24.4	-1.0	849.0	11	314	†	244	90	3.8	38.	7 -0.012	3.83	1541	660	66.	9.40
5277	822	24.2	-13.7	825.0	-	322	18	224	2	0 1.5	-	0 -0.024	1.60	1791	• 026	99.	4.12
į	607	22.3	-15.6	802.0	~	339	**	218	90	0 1.3	41.	6 -0.007	1.47	2037	400	36	9.48
1919	799	20.3	211.5	760.0	=	341	13	217	06	1.9	+	9 -0.001	2.10	2278	0.00	0	9.00
6317	843	18.0	-10.6	757.0	13	351	*1	214	100	0 2.0	45	1 -0.004	2.21	2535	020	. 50	10.38
114	862	15.5	-11.7	734.0	*	348	1,4	208	110	0 1.8	42.	2 -0.006	2.10	2798	.020	.50	10.89
12021	845	191	215.6	712.0	=	350	12	201	120	1+3	43	600.0- 1	1.55	3055	.016	7	11.29
***	0	13.1	-18.5	700.0	•	0	•	196	125	7.0	43.	8 -0.009	1.21	3199	200	-	11.46
	9	12.7	-16.8	690.0	•	60	12	194	130	1:0	;	7 -0.007	1.19	3319	500	-15	11.50
341	Pop	4461	-2002	670.0	10	61	11	189	140	6	45	900*0- 0	1.19	3566	0 200		11.83
12524	826		-17.7	650.0	13	73	-	186	150	0 1.1	45.	7 -0.003	1.41	3817	010	92.	12.09
13327	803	6.3	-15.3	631.0	20	121	•	184	160	7.7	\$	6 -0.002	1.89	4062	.013	• 35	12.41
7714	828	446	***	61200	32	11	2	184	170	2.0	45	9	2.62	4312	.017	*	12.84
***	839	7.5	4.7	593.0	51	131	•	184	180	0 2.6	45	.001	3.59	4568	• 024	99	13.64
31	90	40	-12.5	574.0	40	152	~:	175	190	1.90	9	5 -0.013	2.58	4830	.023	9.	14.04
A F TH 062	1	33333)	D. 67		•	161	0.	801	007		•	A00.0-	50.7	506	100	•	0

RAWINSONDE DATA (WRS 1)
STATION, PNAS MIHAMAR, CALIF
11272 05 AUGUST 1979
FOR OP NO NONE
ASCENT NO. 021
INTERMEDIATE OUTPUT VERSIG

VERSION NO. 45

PUSUA		20.2	3.93	4.30	5.28	6.74	7.32	7.51	7.76	7.93	8.01	8.05	0.11	9.16	6.21	8.36	9.57	8.72	9.96	8.93	9.03	9.25	9.62	10.15	10.73	10.90	11.01	11.42	11.65	11.85	
MAN		2.05	1.01	.38	96.	1.46	•58	•19	. 28	.17	.08	•03	90.	• 05	• 0 9		7	• 15	÷ .	•00	60.	22.	-	.53	s.	-1	•15	0	12.	٥.	
PWIN				• 0 3 5	•039	.058	.023	.008	.010	.007	• 003	.001	-005	4002	200.	900.	900	•000	.005	.003	•00•	•000	-015	.021	• 053	-005	•005	•016	600	•009	
H)H (9	136	27.1	6 04	62♦	510	675	828	696	1096	1235	1366	1509	1791	2068	2342	2611	2875	3134	3400	3660	3927	4200	4480	4739	4963	5034	5091	5308	5455	5589	
41 X (G/K	12.92	12.73	12.28	12.32	9.10	6.83	•20	2,33	1.4.	.95	•24	•2•	.21	•20	.17	1.07		• 6 •	9.	.11	.76	1,33	2.13	3.40	3.67	2.94	2.80	2.51	2.13	2.18	
DNOZ																					-0.001										
: td																					44.8	16.4	45.0	45.1	45.6	45.9	0	46.3	a	•	
			i											1							•58	1.05	1.60	5.48	2.67	2.09	1.99	1.76	1.46	1.48	
•	_	_		_		0		0		0		0	0	D	0	0	0	0		0			0						1		
Z	00	0.5	2	Ξ	*	20	25	30	35	4	\$	50	9	2	80	9	100	110	120	130	140	150	160	170	177	180	182	190	195	200	
a E	353	349	341	341	311	290	241	549	239	233	526	223	217	212	506	207	199	195	189	182	181	180	179	181	178	174	172	168	163	162	
SPD	~	0	•	0		*	0	m	0	~	٥	15	14	† 1	=	12	10	10	7	2	5	*	13	•	0	•	0	m	0	•	
DIR	140	0	163	0	0	167	0	221	0	_	0	344	324	326	331	332	336	356	357	87	112	101	106	127	0	79	•	66	0	6	
ğ	* 6	66	ç	66	56	0	_	10	•	•	~		-	1	-	~	ın.	r	N.	7	80	16	30	55	99	54	53	53	64	23	
P (MR)	966.5	981.0	966.0	963.0	954.0	936.0	920.0	905.0	892.0	878.0	865.0	851.0	824.0	798.0	773.0	7.9.0	726.0	704.0	682.0	661.0	0.049	619.0	598.0	579.0	563.0	558.0	554.0	539.0	529.0	520.0	
10(0)	17.7	17.3	16.4	16.4	11.7	7.2	-35.2	-7.8	-14.5	-20.1	-34.3	-34.5	-35.9	-37.1	-38.5	19.0	-24.9	-26.0	-26.9	-44.1	-25.7	-19.1	-14.2	6.8-	-8.0	-11.2	-11.8	-13.4	-15.7	-15.6	
110)	18.7	17.4	16.6	16.6	20.8	21.5	24.5	26.1	26.4	25.9	55.6	25.4	23.1	21.1	18.7	16.2	14.6	12.4	10.9	9.4	6.7	4.2	1.5	0	-2.7	-3.1	-3.6	-5.4	-6.5	-7.7	33333
HT DIFF	0		876	c	• •	894	0	965	0	873	0	668	923	911	868	882	867	950	871	854	875	895	919	852	0	196	•	668	g	923	350 (PAUSE
H (F T)	445	888	1321	1408	1673	2215	2708	3180	3597	4053	4462	4952	5875	A786	7684	8566	96.13	10283	11154	12008	12883	13778	14697	15549	16283	16516	16703	17415	17898	18338	A FTN 0

	NDZ MIX(G/KG 0 12.08 000 12.08 000 12.41 027 11.75 10.57 13.47	002 9.05 1196	017 8.44 1839 011 8.06 1967 006 9.39 2225 016 8.91 2357 010 8.59 2450 020 7.58 2613	0012	019 55.34 4912 6002 55.0025 69 5154 69 5154
	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 35 35 35 35 35 35 35 35 35 35 35 35 35	9 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25	85 44 8 17 46 9 = 0
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03/11/80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 g	- 11188 - 1188 - 1188 - 1188 - 1188 - 1188 - 11888 - 11888 - 11888 - 11888 - 11888 - 11888 - 11888 - 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	~ .
N NO. 45	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		821. 809. 797. 785. 773.	738.0 6925.0 6945.0 6948.0 6871.0 66.0 746.0	00 00 00 00 00 00 00 00 00 00 00 00 00
BS.1) AR, CALIF. T VERSION NO.		- MO B - N - P	0~ 48 0 74	1	, 00 U+ 00 v
RAWINSONDE DATA (WBS STATION, PNAS MIRAMAR 23:32 05 AUGUST 1979 FOR OP NO NONE ASCENT NO 023 INTERMEDIATE OUTPUT	- W W W W W W W	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			2 FO CV
RAWINS STATION 2313Z OV FOR OP ASCENT INTERM	H (FT) 445 1282 1730 1972 2156	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6635 6687 7300 7732 8169	9022 10 491 116 70 125 72 13 72 96 14 36 57 15 75 52	16467

NASONDE CATA WAS 11 OLIVI, PAS MIRAMAR, CALIF. OF NO NOR NATIO 024 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NATIO 025 FINE DIAGRAM CALIF. NA		NI B	.080 .060 .032	8 % 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	070	.059 .069 .058	040	018	0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	0.057	.028
HE TIPE TO THE PARTY OF THE PAR		61 13c	268 402 547	676 732 845	1095	1344 1485 1608	1743	2238 2238 2403 2403 2403	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3616 3616 3893	4456 4743 5010	527: 5449 5520
HEDIATE OUTPUT VERSION NO 45 HT EIFF I.C. TOLIC P (HH) PH DIP SPN HIN MBS PT DNOZ PAS MRAWAR CALIF. HY EIFF I.C. TOLIC P (HH) PH DIP SPN HIN MBS PT DNOZ PAS MRAWAR CALIF. HY EIFF I.C. TOLIC P (HH) PH DIP SPN HIN MBS PT DNOZ PAS MRAWAR CALIF. HO NONE HT EIFF I.C. TOLIC P (HH) PH DIP SPN HIN MBS PT DNOZ PAS MRAWAR CALIF. HE SPN DAY DAY DAY DAY DAY DAY DAY DAY DAY DAY		3, 2, 5	o o		- M 4	₩.	12.24	12.96 9.89 13.82	89.70 8.70 8.77 8.77	7.50	7.08 6.53 6.13	5.97 5.58 4.36
HT CIFF 1.CT TOTCL POWENT PRINCED 1317.67 HT CIFF 1.CT TOTCL POWENT PRINCED P		ZONO	100	140	000	0.000	-0.006	0.000	00000	00000	0.000	0.009
HT CIFF (COLF) WEDIATE OUTPUT VERSION NO 45 HT CIFF (COLF) WEDIAT						35.55 35.55 35.55						
## GRANDE CATA (WBS.1) ON, PNAS MIRAMAR, CALLF. OB AUGUST 1979 HT ETF 1.C. TO TO C.) P (MH) PH DTR SPD HI WIN CALLF. NO 024 MEDIATE OUTPUT VERSION NO 45 HT ETF 1.C. TO TO C.) P (MH) PH DTR SPD HI WIN CALLF. O 21.9 18.1 999.1 79 50 2 35.7 06 O 21.9 18.1 999.1 19 50 2 35.7 06 O 22.1 17.9 999.0 19 0 0 2 34.7 06 O 22.2 1 17.9 999.0 19 0 0 2 34.7 06 O 23.2 1 10.3 991.0 44 0 0 2 24.7 10 O 23.2 1 10.3 991.0 44 0 0 2 24.7 10 O 23.2 1 10.3 991.0 44 0 0 2 24.7 10 O 24.3 16.6 895.0 62 0 0 2 31.7 22 O 24.3 16.6 895.0 62 0 0 2 31.7 33.7 4 O 24.3 16.6 895.0 62 0 0 2 34.7 10 O 24.3 16.6 895.0 62 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 0 2 24.7 10 O 24.5 11.1 802.0 62 0 0 0 0 2 24.7 10 O 24.5 11.1 73.0 64.0 65 0 0 0 0 2 24.7 10 O 24.5 11.1 73.0 64.0 65 0 0 0 0 2 24.7 10 O 24.5 11.1 73.0 64.0 64.0 65 0 0 0 0 0 2 24.7 10 O 24.5 11.1 73.0 64.0 64.0 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ABS 15.30	15.09 7.96 3.36	7.87	13.77	12.31 12.02 11.90	9.81	30 00 00	7.67	5.72	5.30 4.76	3.79
HEDIATE CATA (WBS.1) ON, PNAS MIRAMAR, CALIF. ON, PNAS MIRAMAR, CALIF. ON, PNAS MIRAMAR, CALIF. P, NO, NONE TINO, OAS MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 41 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 ME			_	•	_	_	1		000	c	,	
### GONDE CATA (WBS.1) ON, PNAS MIRAMAR, CALIF. O6 AUGUST 1979 P. NO NONE T. NO. 024 MEDIATE OUTPUT VERSION NO 45 HT EIFF (C) TO(C) P(HH) RH DIR SPD O 23.4 18.1 999.1 79 50 2 B98 22.5 8.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.2 15.0 999.0 10 0 0 23.5 15.0 999.0 10 0 0 23.5 15.0 999.0 10 0 0 23.5 15.0 999.0 10 0 0 23.5 15.0 999.0 10 0 0 23.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 22.5 15.0 999.0 10 0 0 14.2 10.2 769.0 98 0 0 14.2 10.2 769.0 74 0 0 14.2 10.2 769.0 74 0 0 14.2 10.2 76.0 74 0 0 14.2 10.2 76.0 0 0 14.2		Z 0 I	20 21	220	9 6 9 6 9 6	4 ቦ የ ዕ የ	900	90 90 78	100	128	160	190
MEDIATE CALIF. 06 AUGUST 1979 P. NO NONE J. NO NO NO J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NONE J. NO NO J. NO NONE J. NO NONE J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO NO J. NO	_	я1 352	347 301 269	292 319 294	303	300 295 292	289	281 282 282 262	239 239 239 239	223 2215 215	203 195 188	. 182 177 171
MEDIATE CALIF. 66 AUGUST 1979 P. NO. NONE TO 024 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MEDIATE OUTPUT VERSION NO 45 MATHER	1317:5	SP _D	0 N O		: • Ow	۰ <u>۰</u> ۰	50 6	2020	12 14 19 19	0 71 16 16	15	17 16
HT CIFF (VBS-1) WEDIATE OUTPUT VERSION NO 45 HT CIFF (C) TO(C) P(MH) R RT4 22.3 R.C 999-1 RT4 22.3 R.C 999-1 RT5 22.5 I5-0 999-1 RT7 999-	/80	910 810	000	600	0 F 4	o <u>r</u> o	96	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	54 52 52 51	9,00	72 72 93	4 0 6
MEDIATE CATA (WBS-1) ON, PNAS MIRAMAR, CALIF. O6 AUGUST 1979 P. NO. NONE J. T. NO. 024 MEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WEDIATE WEDIATE WEDIATE OUTPUT VERSION N WEDIATE WED	03/11	8 F	80 4 0 90 90	0 0 4 0 0 0 4 0	, 29	62 65 65	6.65 8.65 8.65 8.65	96 96 96 96 96 96 96 96 96 96 96 96 96 9	64 64 65 65 65	75 82	100	100
MEDIAE CATA (WBS-1) ON PNAS MIRAMAR. CA 06 AUGUST 1979 P. NO. NONE IT NO. 024 MEDIATE OUTPUT U. 2:19 U. 2:25 U		P (MH) 999.1	984.0 969.0 953.0	939.0 933.0 921.0	895.0 882.0	870.0 856.0 844.0	831.0	784.0 789.0 769.0	757.0 734.0 711.0 686.0	666.0	561.0 580.0	543.0 531.0 526.0
MEDIATE OUTPUT HT B IFF (C) WEDIATE OUTPUT	ALIF. VERSION	TO (C)	17.9	10.2	16.6	14.4	01.0	1000	0.00		, o. i.	2.5 2.6 3.6 4.6
RAWINSONDE CAT STATION, PNAS MII 0513Z 06 AUGUST FOR OP, NO, NONE ASCENT NO, 024 INTERMEDIATE OL 1319 1794 1794 1794 1794 1794 1794 1794 17		6•1 2	22.3	22.5	. e. 4.	22.5 22.1 21.0	6.6 F	15.0	12.9	: 	1011	4.55 W
ASCENT INTERM H(FT) ASCENT INTERM H(FT) ASCENT ASCE	ONDE DAT J. PNAS MH S. AUGUST 1 NO. NONE NO. 024 EDIATE OL		0 4 7 0	868	9 9 9 9 9	98	845	200	835 856 879 901	9886 969	915 942 877	855 0 830
	STATION STATION 0513Z 06 FOR OP. ASCENT INTERMI	_	1319	2217 2401	3593	4408 4873 5276	5718	7361 7505 7902 8157	8340 9196 10975 10976	11699	14619 15561 16438	17293 17877 18123

1318:26					
03/11/80					
_	CALIF.				VERSION NO. 45
RAWINSONDE DATA (WBS-1)	STATION, PNAS MIRAMAR, CALIF.	1115Z 06 AUGUST 1979	FOR OP, NO, NONE	ASCENT NO. 025	INTERMEDIATE OUTPUT

PWSUM	.82	2.00	3.36	4.28	4. A4	5.76	7.14	8.17	10.68	12.23	13.59	16.23	18.73	21.17	23.48	25.57	27.59	29,43	31.18	32.11	32.99	33.87	34.68	36.00	37.15	37.68	38.13	38.64	39.10	39,53	34.94
PERM	.82	1.17	1.36	.93	• 56	.93	1.38	1.63	1.91	1.55	1.36	2.64	2.49	2.44	2.71	2.08	20.2	1.84	1.75	.93	. 00	.88	. 30	1+32		.53	. 45	.5	94.		04.
NIMO	.032	.046	•024	• 036	.022	.036	.054	+90+	.075	190.	.054	• 104	860.	960.	.091	.082	080.	• 073	690	•037	•035	•035	.032	.052	.045	.021	910.	.020	.03	.017	.016
(6/KG) H(M	96	274	40B	571	682	825	496	1090	1237	1367	1487	1743	2005	2274	5549	2821	3100	3374	3656	3806	3946	4088	4232	4513	4788	6264	5057	5201	5333	5467	5603
H;X(6,	13.16	41.14	6.70	3.41	5.13	6.42	11.67	13.00	12.09	11.38	10.04	9.87	4.11	9.48	8.70	8.38	8.20	7.58	7.36	7.93	7.90	7,83	6.54	5.85	5.45	4.98	4.95	5.12	7.95	4.57	4.23
ZUNG	• 0 1 2	÷0.069	-0.078	-0.052	• 032	0	• 059	6000	-0.022	-0.036	-0.017	-0.013	600-0-	-0.010	-0.012	600.0-	-0.00-	-0.010	-0.007	100.0-	800.0-	-0.00B	-0.020	600.0-	-0.008	-0.010	-0.006	-0.003	100.0-	600-0-	-0.033
74	20.5									-			_																		21.1
ABS	15.18	12.74	7.54	3.86	6.30	6.88	12.24	13.43	12.30	11.58	10.86	9.73	9,32	8.74	7.86	7.36	7.08	6.33	90.9	6.39	42.9	6.13	5.01	6. 39	3.97	3.58	3.53	3.58	3.39	3.13	2.83
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æ (350 352	333	662	271	282	282	310	314	303	962	290	279	271	262	252	544	237	228	222	221	217	214	502	196	189	184	182	180	111	173	168
SPO	~ ≏	0	*	0	ø	0	r	0	*	0	'n	ĸ٥	2	•	6	60	11	12	12	0	13	0	*	16	17	0	8	0	15	0	21
PIO	0 0		161	0	371	0	176	6	55	0	100	6	100	18	78	8)	18	4	78	0	98	٥	105	123	34	0	141	C	133	0	125
Œ G	m & 20 80	67	0+	6 2	<u></u>	35	\$	7	9	63	29	99	99	2	2	*	62	80	88	66	66	100	183	85	98	85	82	96	100	95	16
P (ME)	998.8	983.0	968.0	950.0	938.0	923.0	908.0	895.0	880.0	867.0	855.0	830.0	805.0	780.0	755.0	731.0	707.0	684.0	661.0	0.649	638.0	627.0	616.0	195.0	75.0	565.0	\$56.0	546.0	537.0	528.0	519.0
10(0)	17.9	15.2	7.3	-2.0	9	6.0	14.6	16.1	14.7	13.7	12.7	10.9	10.2	2.6	7.5	6.5	5.8	4.1	3.3	1:4	3.7	6,6	٠,	-1.3	-2.8	-4.2	4.4-	-6.3	-5.0	-6.1	-1,3
1(0)	20.3	21.6	21.6	23.4	22.1	22.3	23.8	21.6	21.6	20.9	20.3	17.7	16.1	14.7	12.9	11.0	5.5	7.4	5.1	4.2	0.0	7.0	5.6	6	1.0-	-1.5	-2.3	-3.7	-5.0	-5.5	3.6
HT DIEF		0	268	9	668	0	926	0	895	a	128	940	859	199	406	891	918	901	924	٥	156	0	938	922	903	٥	993	9	506	0	684
HIFT	645 625	668	1337	1873	2236	5695	3164	3576	4059	+48+	4880	5720	6579	7460	8364	9255	10170	11071	11995	12487	12946	13412	13884	14806	15709	16171	16592	17065	17497	17935	18381

1318:52					
03/11/80					
	CALIF.				VERSION NO. 45
RAWINSCNDE DATA (WBS-1)	STATION, PNAS MIRAMAH, CALIF.	1715Z 06 AUGUST 1979	FOR OP, NO, NONE	ASCENT NO. 026	INTERMEDIATE OUTPUT

PWSUR		1.23	2.86	****	40.9	8.28	6.93	10.80	12.04	13.90	15.76	17.79	19.29	22.07	24.74	27.25	29.68	31.84	33.77	35.30	36.65	37.94	39.08	39.97	40.55	41.25	96.14	
HHAd		1.23	1.63	1.59	1.60	5.24	• 6 4	1.87	1.24	1.86	3.86	2.03	1.50	2.19	5.66	2.51	2.43	2.16	1.92	1.54	1.35	1.29	• 15	60	.58	2.	.63	
MIND		.048	•00	.063	• 063	.088	.025	.074	640.	• 073	.073	080	050	.110	105	660.	960.	.085	.076	090	• 093	•051	• 0 4 5	• 035	.023	-027	. 026	
3) H(M)	136	225	345	4 63	581	159	816	616	1076	1214	1344	1485	1607	1867	2132	2394	2992	2925	3196	3463	3724	3991	4253	4520	4797	5081	5359	
1 X 1 G / K	5,05	2.11	12.55	1.50	2.74	94.0	0.63	1.08	3.28	2.93	5.25	3.22	1.34	0.62	0.34	92.0	9.70	8.79	7.68	90.9	6.55	5.5]	5.76	2.97	2.76		2.63	
DND2 H			.002																	-					200	200	1.013	
ρŢ			27.6											- 7						- !							40.0	
185	3.69	3.51	4.12	2.73	3.88	1.18	1.37	1.44	3.65	3.18	5.31	3.12	1.23	0.26	9.14	9.41	8.71	7.65	6.50	50.5	5.28	4.38	14.4	2,25	1.99	2.92	1.82	
•	_	_	0	_	-	_	_	_	0	_	•	,	•	0	0	0	0	0	0	4			0	0	0	0	0	
Z	00	0.5	2	15	2	28	30	37	•	€	50	55	9	70	80	6	100	110	120	130	140	150	160	170	180	190	200	
ā	336	333	334	323	356	306	306	303	314	308	318	303	290	519	271	564	255	243	230	217	214	202	200	182	175	177	165	
SPD	~	0	•	0	ĸ	0	•	0	ø	0	ው	0	12	11	10	10	10	10	=	10	10	Ξ	11	11	=	87	2	
018	320	0	305	0	306	0	175	0	174	0	142	0	121	95	110	†	90	96	*	106	102	101	109	111	127	123	137	
ĭ	5	56	9	55	60	6#	51	55	4	49	83	16	69	69	4	80	82	11	4	58	72	99	11	42	0	19	46	
O (MH)	0.966	986.0	973.0	0.096	947.0	928.0	922.0	- 0.506	895.0	861.0	868.0	854.0	842.0	817.0	792.0	768.0	744.0	721.0	698.0	676.0	655.0	634.0	614.0	294.0	574.0	554.0	535.0	
TD (C)	16.6	16.4	17.0	15.4	16.8	13•♠	13.6	13.7	16.4	15.8	18.1	15.6	13.2	11.7	10.8	10.2	0.6	7.0	9.4	100	1.5	-1.2	-1.2	-10.0	-11.6	6.9-	-12.8	
1(0)	26.7	26.0	25.2	25.0	25.0	7. F	£••3	23.4	6.55	25.2	21.1	0.02 20.0	18.9	17.4	15.4	13.6	11.9	10.9	10.5	8.7	5.9	 -	2.5		5.	-1.46	-3.0	33333)
9310	o	0	677	o	783	0	212	୍ଦ	154	0	875	7	864	851	812	657	518	865	066	916	456	975	857	976	907	559	613	IPAUSE
H(FT) HT																										;		A FTN 062

PAWINSONDE DATA (MBS 1) STATION, PNAS MIRAMAH, CALIF

ANCENT NO DE																	
보 건 <u>건</u>	INTERMEDIATE	E-E-E	VERSION	NO 45													
1	11	1(0)	10 (C)	(H)	ĭ	_	SPO	R	Z	4	S	۵	DNOZ	(9)	#) # (9)	NIMO	N
644		31.4	10.7		58	305	~	306	00	•		31.6	0	~	136		
669		28.5	3.0	•	52		0	462	03		_	29.4	7.40.0	~	213	.025	•63
1143	69	27.5	7.7	;	62	254	• • • • • • • • • • • • • • • • • • •	295	10			29.7	00	C	348	• 036	66.
1472	•	2.92	8.0	÷	32		0	564	15		_	- 5.62	0.001	~	644	•031	. 78
1894	t99	25.3	9.71	952.0	™ (26B	ø	30 00 00 00 00 00 00 00 00 00 00 00 00 0	0 2 2	0		29.5	• 035	9.20	550	• 936	6
2170		24.6	13.0	• •	• 4) i	> r	9		 	. ~	30.7		> C	166	0 4	
4002	60	0 00	7.47	•	, ,	n	, ,	0.0	3 %	-		30.5	9 6	12.90	808	070	1.77
2229	720	22.7	-		: . 9	241	> *	313	0	-0		31.1	0.0	12.56	486	9	-
1610		21.8	15.5		4.8		-	310	₹.	_	•	۰	0.00	12.61	1100	090	1.53
4028	199	20.9	15.2	::	70	200	•~	307	20	0	_	31.7	0.00	12.46	1228	.065	1.66
6144	0	20.4	13.2	869.0	63	0	0	562	52	-		32.4 -	.03	11.00	1341	• 056	1.43
4847	618	19.8	13.0	ŝ	65	186	œ	262	9	0	٠.	33.1 -	• 00	11.11	1477	.057	3.46
5550	a	18.7	12,3	Š	99	0	0 ~	284	89	-		34.1	• 0.	10.79	1692	200	2.34
5686	839	18.5	11.3	-	63	183	70	279	70		_	34.3	•03	10.21	1733	.017	. 43
5959	0	18.2	10.7	÷	79	0	٥	275	73	-	_	34.9	9	6. 4	1816	• 032	æ.
6546	Bbo	16.8	10.0	ŝ	* 9	176	. 13	270	8	- 1	_	٠.	00.0	09.6	1995	990+	1.67
6827	0	17.0	10.5		99	0	0	010	50			7.00	00.0	5.01	1902	9036	000
1394	100 400 500	15.5	7.7	ů,	00	172	<u>د</u> .	25.0	9 7	۰		20.00	9	20.0	\$C27	000	26.1
45	9	200	249	٥,	7			000			ا.	200	56	200	0 0 0	0000	
0 0		13.0			7 6	100	1	2 4 5	2 -	•		37.6		8.17	2743	200	2
	10		. m		2 (9		243	110			37.9		8.29	2846	030	.75
9870	870	10.3	*	715.0	57	150	20	532	120			38.8		7.39	3008	**0	1.12
10176	0	9.6	3.6		99	0	0	231	123	•	_	39.0	.01	6.97	3102	.023	.58
10763	893	9.4	2.8	ស់	89	143	2	526	130	0		39.7	00.	6.81	3261	.041	1.05
11641	878	7.3	-0-3	ė	58	138	20	\$12	140		_	+1.4	.0.	5.56	3548	• 054	1.38
12501	860	5.6	-7.5		38	149	17	197	150		_	4 2.3 -	5	3,33	3810	• 037	. 95
1955	640		13.9	o.	2	156	*	186	160	1	•		.0	90.2	4066	• 026	
19205	900	ا د د	2002	٠.		•	~ c	0 / 1	0 0			- 4.44		4 0 4 1	2 C M	0.0	
0.001	7 4 6	•	• • •	\$.	<u>.</u> ;	7	9 5	7	200					1			200
16804	966	-0.0	-22.4	555.0	-	64	uim	291	2002		İ	10.04	10000	1.16	5122	010	£
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PUSUA

VERSION NO. 45

HIFT) HT OIF		10(0)	P (MB)	ă	DIR	SPD	I a	Z	ABS		_	W ZONO	1 X (G / K (S) I (N)	NING	TIME	PUSUA
0		19.9	0.666	66	295	٣	363	00	17.			_	4.84	136			
0		19.7	982.0	95	0	0	358	90	16.			-	96.	582	.101	2.97	2.57
		٠	972.0	52	o		283	60	•	į			• 116	374	.038	.97	3.54
869		-12.7	969.0	æ	308	~	264	10					1.40	401	.003	• 08	3.63
9		-14.6	964.0	~	0	0	261	12	-				1,25	445	.003	.04	3.70
0		13.9	953.0	9	0	0	318	16	11.				0.53	545	• 050	• 66	4.35
637		8.4	941.0	36	133	~	293	50	0 8.				7.29	959	.043	1.09	5.44
ď		13.9	927.0	57	0	d	310	25	11.			_	0.87	787	.051	1.29	6.13
835		14.5	914.0	26	112	, (C)	309	30	0 12.				24.1	910	.058	1.47	6.20
•		13.6	9000	57	0	0	303	35	11:			_	0.93	1045	.063	1.59	9.19
826		12.0	688.0	52	144	*	293	0.4	10.				16.6	1162	.050	1.27	11.06
0	i i	11:11	885.0	51	0		583	*	ó	1		1	3.51	1611	-012	.30	11.36
748		11.0	865.0	54	136	•	285	50	6 0				9.57	1390	•076	1.94	13,30
198		9.6	841.0	53	181	'n	275	9	9.0				9.02	1633	.089	2.27	15.56
783		4.4	618.0	50	193	•	263	10	1	1		١.	7.95	1872	.078	96° I	17.55
936		8.0	794.0	58	190	œ	261	90	0				8.54	2127	• 079	2.01	19.56
0	į.	8.4	783.0	8	0	0	549	85	9				5.88	5546	•034	•86	20.02
821		5.7	771.0	52	181	Ξ	549	06	9	ı			7.51	2377	035	38	21.30
603		+.+	749.0	58	173	Ξ	242	100	•				7.06	2622	•064	1.63	25.92
٩		4.5	738.0	99	0	0	239	105	9				7.13	2746	•031	• 19	23.72
621		1.4	727.0	52	169	12	230	110	0	Į.		١.	5.82	2872	.028	.72	24.44
840		6.	705.0	58	171	*	225	120	0 5.				5.81	3128	.051	1.30	25.74
861		-5.5	683.0	39	169	14	208	130	3				3,68	3390	500	1.06	26.80
843		-19.8	662.0	13	165	12	190	140					1.18	3647	.020	55	27.32
852		-27.6	642.0	7	134	15	182	150	•				.60	3899	.007	. 18	27.50
847		-33.3	622.0	5	131	16	176	160	,				04.	4157	400	• 10	27.60
870	4.5	-43.1	602.0	~	146	15	170	170	10	į	45.4 -0.007	1	51.	4422	•005	90•	27.66
₩6₩		-46.0	582.0	~	137	11	165	180	•				* :	4695	.00	.03	27.69
920	- [-50.4	562.0	7	141	19	160	190		:			90.	4975	.001	- 02	27.71
0		-50.7	553.0	,- -	0	0	158	195	•				90.	5104	0000		27.72
901		-8.0	543.0	68	129	2	173	200	~				3.84	5250	.00A	• 20	27.91

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	RAWIN	RAWINSONDE DATA (WBS.1)	DATA	WBS-1)			03/11/80	08/	1320:55	55										
	STATIC 1115Z (FOR OF ASCEN	STATION, PNAS MIRAM 1115Z 07 AUGUST 1979 FOR OP NO. NONE ASCENT NO. 029	S MIRA UST 197 IONE 29	STATION, PNAS MIRAMAR, CALIF 1115Z 07 AUGUST 1979 FOR OP NO, NONE ASCENT NO, 029	ار! ا															
	INTER	INTERMEDIATE OUTPUT	TE OUT	ا ر	VERSION	NO 45														
	Ĭ		0.166	600.	10 (C)	GHE Q	ž	DIR	SPD	R	Z	ÀB	:	PĪ.	DNOZ	M1 X (6/1	/KG) H (M	NIMO	ME	á
	445				• • •	997.8	96	50	_	346	00	73		19.0	0	11.86	136			
	783		0	7005	19.1	986.0	16	0	0	356	0	16	~	21.9	~	14.34	539	290	1.97	
	1074		0	25.1	7.8	976.0	38	0	0	301	70	_		80	.188	6.76	327	-045	1.07	
	1309	ě	864	23.4	-1.1	968.0	20	11	~	277	01	•	2	-	7	3,72	366	•017	.43	,
	1756			22.9	15.1	953.0	19	0	0	322	15	_	\$	27.0	101	11.32	535		1.15	-
	2211	õ	206	23.1	10.7	938.0	9	10	'n	300	20	6	<u>ب</u>	28.6 -	o	8 75	419	.060	1.53	
	2580		0	23.1	18.0	956.0	73	0	0	330	%	5	~	29.7	• 080	14.18	786	• 055	1.40	,-
	2830		0	23.4	12.7	918.0	5	0	0	305	27	5	Z.	30.7	0.11	2	863	•039	6	
	3144	œ	933	23.1	15.3	908.0	79	64	-	311	30	_ •	=	•	•050	2	958	**0	1:13	5
	3943	~		21.4	13.9	883.0	63	165	۳	301	0	•	22	0	0.013	Ξ	1202	.118	2.99	=
	4761	60		20.5	12.5	858.0	9	180	9	583	50	-	89	۰	0.014	10.67	1451	1111	2.82	تـــ
	5601	ã	8 • 0	19.4	13,2	833.0	41	190	2	287	9	0	11.25	7	0.003	11.48	1707	.111	2.81	_
D	6462	ĸ		18.2	9.0	808.0	52	184	12	992	70	0	26	S.	0.025	8,98	1970	.102	2.60	Ñ
1-3	7349	8		15.7	7.6	784.0	58	172	9	257	80	- 1	- [9	0.010	8432	2228	1083	211	٦
1	8175	ž	856	4.4	4.0	760.0	52	168	11	546	6	•		æ	0.013	7.48	2492	•076	1.93	~
	199	•	0	13.4	5.6	7.8.0	8	0	0	236	95	un		38.2 -	-0.022	6.20	5626	• 033	.83	2
	9606		851	15.4	2.3	737.0	21	171	11	233	100	- 1	04	ᅾ.	900 0	6.14	275	- 027	9	7
	9686		٥,	٠,٠	5°0	714.0	9	907	9 :	622	110	D -	າ	٦,	0000	7.0	0100	.00		, č
	10786	•	071	••	•	0.1.0	•	101	01	775	07 9	_	. ,	ų	00000	200	2000	000.	•	
	66911	5 	613	5.3	-6.3	668.0	*3	168	12	204	130	- 1		7	0.019	,	3300	.000	3	٦
	12596	±	1697	3.6	-13.1	646.0	5 8	167	16	192	740	-	*	+0.0	0.014	2.14	3839	• 022	•	ň
	13519		23	2.3	-19.6	624.0	8	177	15	182	150	_	.0.	•	0.011	1.30	4121	.015	8	<u> </u>
	14425		906		-22.0	603.0	91	171	13	176	160	j	.83	ø	0.007	1.09	4397	010	\$	~
	15359				-19.3	582.0	23	171	1	173	170	~	• 0 2	ø	*00°0.		468	010.	-57	<u>-</u>
	16277			6.0-	-25.7	562.0	13	171	17	164	180	_	9.	8	60000	.82	4961	6000	•33	~
	17224	į	į	-3.0	-28.4	542.0	77	171	22	159	190		74.	48.8	900-0.	99	\$250	900	• 15	~
	16150	6	926	-5.1	-31.2	523.0	11	170	23	154	200		•36	49.5 -	.0.00	. 55	\$532	•002	•12	č
	A FIR	3) 290	(PAUSE	33333)																

03/11/80 1321:23

VERSION NO. 45

RAWINSONGE DATA (WBS.1)
STATION, PNAS MIRAMAR, CALIF.
17152 07 AUGUST 1979
FOR OP. NO. NONE
ASCENT NO. 030
INTERMEDIATE OUTPUT
VERSIC

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PWSUR		3.	5	3,34		5.83	7.13	P.3	9.7	10.96	12.33	13.4)	14.8	16.9	18.7	20.32	22.00	23.4	24.5	25.49	26.30	26.7	27.4	28.5	29.43	30.2	30.5	30.75	30.9	
PWR		•9•	- 20	1.40	1.37	1.19	1.24	7.5	1.36	1.25	1.38	1.08	1.44	2.12	1.76	1.59	1.68	1.4.1	1:13	• 45	.87	7	.67	1.08	ē.	-82	Ŕ.	•55	•55	
NIMO		.025	.051	• 055	• 024	140.	640.	940.	• 054	640.	•054	- 6 4 9 -	.057	.084	690.	.063	990.	• 020	.045	•037	•034	•016	• 056	.043	•036	•032	10.	600.	600•	
(N)	136	189	598	4 16	536	648	171	885	011	129	558	358	664	736	1961	\$02	7447	683	955	1160	3366	1497	3645	1897	142	393	200	4651	688	
X (6/KG)	10.48		i					1							l						i									
~																_			_		١.		_	_						
ONO		-0.00	-0.00	-0.00	-0.0]	-0.02	-0.00	00	-0.0	-0.00	-000	-0.00	-0.02	-0.0	-0.03	-0.00	-0.00	-0.03	-0.00	-0.01	-0.00	÷	-0.0]	-0.00	-0.0	-0.00	-0.03	-0.018	-0.0	
F d	28.5	28.1	28.5	28.6	29.3	30.9	31.4	31.8	32.4	32.9	33.0	33.4	33.9	34.8	35.8	37.2	37.6	38.0	39.6	38.9	39.1	39.4	40.3	41.3	4.1.4	41.7	#3.E	46.2	47.3	
ABS	11.97	11.89	11.77	11.60	11.15	10.05	10.12	11.05	10.46	10.56	10.72	10.78	64.6	8.45	6.78	6.78	7.06	4.91	4.54	3.58	3.66	4.68	4.32	4.25	3.13	3,39	1:94	1.06	.8	
			0		0		0		0		0		0	0	0	0	0	0	0		0			0	0	0		0		
Z	00	0.5	2	15	20	52	30	35	•	\$	50	\$	9	7.0	80	6	100	110	120	130	140	1 + +	150	160	170	180	184	190	200	
ă	324	323	320	317	311	301	568	305	962	594	262	291	280	270	255	250	247	230	224	214	211	215	210	205	195	193	181	172	166	
SPD	4	c	•	0	~	0	2	0	•	0	•	0	_	6 0	6 0	٠	o	٥	o	10	10	0	10	11	10	10	0	11	12	
DIR	190	0	273	0	231	0	144	٥	120	0	154	0	147	147	153	152	157	156	168	165	167	0	169	171	191	186	٥	186	192	
ă	;	-	64	20	64	6 4	45	5.	51	53	57	9	55	ių.	94	64	59 60	45	14	7	50	99	† 9	2	9	92	7	21	e	
P (MB)	992.0	986.0	0.416	961.0	948.0	936.0	923.0	91116	868	886.0	873.0	863.0	849.0	826.0	804.0	782.0	760.0	739.0	718.0	698.0	678.0	670.0	658.0	638.0	619.0	600.0	592.0	581.0	564.0	
10(0)	14.6	14.5	14.2	14.0	13.4	11.8	11.9	13.2	12.3	12.4	12.6	12.6	10.7	80	5.6	5.5	0.9	æ.	♦.0-	-347	-3.5	-0-2	-1.3	-1.6	-5.8	6.4-	-12.0	-19.2	-55.3	
7 (C)	27.8	26.8	55.9	25.2	24.7	25.2	24.5	23.8	23.1	55.5	21.4	20.7	19.8	18.4	17.1	16.1	14.2	12.2	10.4	9.4	6.3	9.6	•	3.4	1:1	-1.1	-0.3	۳.	-:-	533331
1110	0	0	532	0	781	0	771	0	189	0	808	, 0	793	176	760	111	795	176	262	171	787	0	908	927	₩0₩	822	0	848	7.80	(PAUS)
Ħ															i I					ļ										06.2
H(FT)	445	621	977	1365	1758	2126	2529	2905	3318	3704	4126	4454	6164	5695	6455	7232	8027	A803	9595	10366	11153	11473	11959	12786	13590	14412	14765	15260	16040	X L U W

RAWINSONDE DATA (WBS-1)	03/11/80	1321
STATION, PNAS MIRAMAR, CALIF.		
2325Z 07 AUGUST 1979		
FOR OP, NO, NONE		
ASCENT NO. 031		
INTERMEDIATE DITTRIT VERSION NO 45	NO AR	

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MOSA.		.68	2.10	3.76	*v	7.61	9.20	0.74	2.05	3.18	5.23	7.21	01.6	09.0	96.1	3.26	6.59	5.55	98.5	26.75	7.65	95.8	94.6	9.61	10.32	10.75	10.01	11.20	
PERM					9.0								-	(i			1							
ONING					935			1						1		,												:	
Ţ				-	0.4 4.0 4.0		-				Ī			1		-	-		Ĭ		-	_	-	Ī	-	-		-	
/KG								1					1	İ						1						ı			
4	•			_	5 9 75		_							ł												,			
CNO	_	-0.09	• 05	_	-0.016	-0.02	-0.01	-0.01	-0.02	-0.01	-0.01	-0.0]	-0.00	-0.016	00.0-	00.0-	00.0-	-0.00	-0.02	-0.00	_	-0.00	-0.00	.00	-0.03	-0.01	-0.03	-0.01	
					27.5														- 1										
ABS	11.53	8.13	10.47	11.20	10.77	12.02	11.65	10.91	9.55	4.27	8.13	7.62	7.10	5.49	5.66	5.24	5.25	5.30	3,73	3.28	3.96	3.88	3.17	3,92	3.19	2.63	1.25	• 58	
			0		0	0		0			0	0	0	6	0	•				0									
Z	00	03	0.7	17	20	30	35	4	A.	20	9	70	80	96	100	110	120	125	130	140	150	160	170	172	180	186	190	200	
I a	323	304	315	315	311	312	306	862	287	282	27.1	262	452	240	237	230	526	225	212	205	206	201	197	197	190	184	172	163	
SPO	-	0	o	0	6 0 ¢	> o	-	•	0	6 0	2	-	2	~	±	51.	* -	0	*	13	13	-	21	0	13	0	±	91	
DIR	315	o	286	0	298	282	-	267	6	204	179	162	162	170	175	173	184	0	181	176	183	197	203	c	206	0	202	200	
Œ	£.4	*	64	53	ξ. Ε.	3 3	\$	200	64	8	45	45	9	38	\$ 2	14	5	9	4	£4	6	99	*	78	7.	63	30	*	
P (MB)	7.166	0.066	973.0	956.0	948.0	922.0	908.0	894.0	881.0	869.0	846.0	824.0	798.0	776.0	754.0	733.0	711.0	701.0	689.0	668.0	648.0	630.0	612.0	609.0	594.0	583.0	575.0	557.0	
10 (C)	0.4.	8.6	12.3	13.3	12.7	***	13.9	12.9	10.9	10.4	60	7.4	6.3	2.6	5.6	1.1	9.	1.7	-3-1	6.4-	-2.5	-2.9	43.4	-2.9	-5.1	-8.5	-17.4	-26.1	
1(0)	27.9	25.7	23.6	23.3	22.7	25.5	22.0	25.2	22.0	22.0	20.9	19.8	18.1	16.9	14.6	12.7	10.4	9.5	Bab	6.1	*.*	2.9	æ.	'n	-1.1	-2.5	-2.1	-1.9	
1 0165	0	0	723	0	747	196		885	0	810	765	817	836	786	803	782	639	0	857	840	818	753	770	c	787	0	851	832 PAUS	
2	5	0.	80	*	2) -	. 9	'n	2	2	. 6	5		-	0	2	<u></u>	0	18	9.	٩	6	6	66	26	9	7	39 78 062	
H	3	•	7	9	61	27	712	35	0.4	*	516	59	687	76.0	*8	318	100	104	LORE	1172	1254	1325	1406	5 ! • !	148	1534	1574	16539	

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03/11/80					
=	CALIF				VERSION NO. 45
RAWINSONDE DATA (WBS-1)	STATION, PNAS MIRAMAR, CALIF	0515Z 08 AUGUST 1979	FOR OP. NO. NONE	ASCENT NO. 032	INTERMEDIATE OUTPUT

MAZON		2.27	4.1	92.9	7.43	8.76	10.68	11.96	12.71	15.17	15.85	17.29	18.59	19.88	21.13	23.31	25.26	56.89	28.46	30.02	31.40	32.55	33.53	34.64	35.76	36.74	37.04	37.31	37.32	37.35	37.36	
PWW			1					1.28							1								İ									
MIMO		.089	. 960 ·	• 020	•046	• 052	• 0 7 6	.050	•050	.097	.027	• 057	.051	.051	640.	•086	.077	•00•	290•	1901	• 055	• 0 4 5	• 039	440.	• 0 •	•036	510.	.011	000	.001	.001	
(F) H (F)	136	252	104	523	909	069	853	916	916	1171	1230	1369	1501	1634	1779	2065	2337	2616	2903	3185	3451	3725	4005	4292	4574	4835	6164	206	5116	5397	5687	
11X (G/K	6.88	6.93	1.98	9.65	5.01	4.05	2.97	12.20	2.34	1.92	0.23	00.0	9.68	9.89	7.66	8.25	7.09	5.78	6.53	6.27	6.13	4. 14	4.66	5.23	5.27	4.90	4.97	•36	61.	• 02	.07	
ZONO			-0.079					-0.021 1							ļ																	Ì
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ABS	19.30	19.16	13.48	11.78	16.30	15.22	13.76	12.91	12.87	12,24	10.48	10.04	9.60	9.72		7.78	6.53	5.25	5.75	5.40	5.08	3,36	3.68	*00*	3.94	3.62	3.62	• 26	• 15	• 05	• 05	
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α	374	370	331	317	341	333	320	314	312	304	262	586	281	279	563	528	942	233	231	224	217	202	200	198	193	187	186	161	159	153	147	
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P (MH)	999.5	986.0	969.0	956.0	947.0	938.0	954.0	914.0	908.0	888.0	982.0	868.0	855.0	842.0	828.0	801.0	776.0	751.0	726.0	702.0	680.0	658.0	636.0	614.0	593.0	574.0.	568.0	558.0	554.0	535.0	516.0	1
10(0)	21.9	21.8	16.3	14.2	19.3	18.2	16.6	15.6	15.5	14.7	12.3	11.6	10.9	11.1	7.	7.7	5.0	1.8	3.0	2.0	1.1	-4.5	4.8-	-2.3	-2.8	0.4-	7.4-	-34.6	0.04-	-50.5	-50.5	
1(0)	22.3	22.3	24.1	24.6	24.4	24.1	24.6	23.7	23.5	22.3	22.3	22.3	21.2	21.0	20.4	18.9	17.4	15.2	12.8	1101	10.0	8.2	5.6	2.1	•	-2.3	-3.0	8.0-	-0.8	8.0-	8.0-	33333
HT DIFF	0	0	985	0	• •	938	0	0	937	0	833	0	888	0	913	626	663	916	686	927	873	897	616	943	925	856	0	0	676	916	646	62. (PAUSE
H(FT)	445	827	1327	1716	1989	2265	5699	3012	3202	3841	4035	2644	4923	5360	5836	6775	1668	8584	9523	10450	11323	12220	13139	14082	15007	15863	16138	16603	16792	17708	18657	A FIN D

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(G) H(M)	332	358	2 6	650 650	462	246	1011	1213	1352	1462	1614	1748	2021	2291	2568	2840	5979	3120	3395	3666	***	4230	4511	4800	5082	5375	5663	
MIX(G/K 12.83	12.80	8.49		11.25	10.31	9.72	7.38	7.37	7.21	6.32	3.41	5.19	5.03	1.90	1.19	1.09	5.44	4.31	3.74	2.58	3.1.	3.04	.57	2.84	.87	90.	90.	
ZONO	-0.012	-0.358		010.	-0.023	-0.017	-0.044	-0.007	-0.010	-0.019	-0.048	•016	-0.008	920.0-	-0.010	-0.006	• 045	-0.019	60000-	-0.012	F00.0-	-0.006	-0.018	200	-0.015	-0.011	-0.005	
PT 19.6	21.1	22.9		27.6	29.0	30.4	31.8	32.0	32.7	33.3	34.5	35.2	36.4	37.5	38.3	39.1	39.5	40.0	41.0	41.9	930	4.4 B. B	45.5	45.4	46.5	51.7	53.0	
AHS 15.00	14.62	9.70		12.25	11.11	10.38	7.65	7.55	7.27	6.39	3,35	5.08	4.77	1.73	1.03	.93	4.79	3,75	3.17	2.15	7.7	2.37	**	2.08	.60	•0•	•0•	
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P (MB)	976.0	973.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	90.0	925.0	910.0	896.0	882.0	868.0	855.0	842.0	829.0	803.0	778.0	753.0	729.0	717.0	705.0	682.0	0.055	038.0	616.0	595.0	574.0	554.0	534.0	5,5.0	ı
10(C)	17.3	11.0		7	13.2	12.1	7.6	7.3	6.1	6.4	0.4-	1.6	9.	-12.7	-19.0	-20.5	•	-3.0	-5.3	-10.3		-6-3	-29.0	1.11-	-25.7	-51.0	-52.0	
19.5	19.1	20.6	200	22.3	22.3	22.3	22.3	21.2	20.6	6.61	19.7	19.1	17.6	16.0	14.0	12.1	11.1	10.2	8.4	9.	•	3.2	1.6	-103	*3.2	9.1.	-3.3	33333)
1 0166	• •	O, t	2	9 9	•	956	0	168	0	883	0	872	697	885	706	893	•	916	905	687	616	938	922	746	927	959	- 945	2 (PAUSE
H(FT) H	1088	1176	7751	2161	2621	3089	3532	3980	- 4435	4863	\$296	5735	6632	7517	8424	9317	9773	10235	11140	12821	1290	13678	14800	15747	16674	17633	48578	A FTN 06

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